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Noah Gans

Bowdoin College

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Urban Pastures: A Computational Approach to Identify the Barriers of Segregation

An Honors Paper for the Department of Sociology

By Noah Gans

Bowdoin College, 2022

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Abstract

Urban Sociology is concerned with identifying the relationship between the built environment and the organization of residents. In recent years, computational methods have offered new techniques to measure segregation, including using road networks to measure marginalized communities' institutional and social isolation. This paper contributes to existing computational and urban inequality scholarship by exploring how the ease of mobility along city roads determines community barriers in Atlanta, GA. I use graph partitioning to separate Atlanta's road network into isolated chunks of intersections and residential roads, which I call urban pastures. Urban pastures are social communities contained to residential road networks because movement outside of a pasture requires the need to use larger roads. Urban pastures fence citizens into homogenous communities. The urban pastures of atlanta have little (<1) standard deviation along dimensions of race, educational attainment, and poverty levels. Scholars have long identified the role roads have in displacing urban communities, reducing housing value, and acting as static physical barriers between communities. This paper identifies new approaches to consider how the movement along roads networks also segregates cities.

Key Words: *Network, Graph, Graph Partition, Urban Inequality, Segregation,*

Subgraph

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Introduction

American cities are hypersegregated (Glaser 2001). Research on segregation investigates various structural causes for the persistence of urban segregation in cities, including the uneven spatial proximity of racial groups, the effects of infrastructure on segregation, and the unequal access to place-based resources (Alba and Logan, 1993; Massey and Denton 1993, Logan 2013). Sociologists have long been concerned with identifying, measuring, and diagnosing residential segregation (Dubois 1903; Massy and Denton 1993; Sampson 2012; Sampson and Sharkey 2008). From the early days of Sociology, researchers have drawn on different methods to measure and identify further nuances of segregation and urban inequality, from walking urban streets (Simmel 1902), examining census data (Glaeser and Vigdor 2001), and surveying citizens on the conditions of their life (Sampson 2011). Although these studies may examine the effects of segregation over time, much of these data focus on a single point, treating residents within communities as static actors confined to their local environment.

Over the last fifty years, scholars have used computer modeling to develop and test existing theories related to segregation (Shelling 1971). Computational Sociology can analyze online interactions, apply machine learning to existing datasets to anticipate future outcomes, or build simulated social environments to run experiments (Evans & Foster 2019, p. 11). Shelling's foundational models of segregation revealed the persistence of racial segregation in communities despite individual preferences to live in racially integrated neighborhoods (1971). More recent models have highlighted how social performances among individuals produce segregated social performance spaces (Shaw 2015). Spatial Proximity and Connectivity (*SPC*) (Roberto 2018), the most contemporary segregation model, identifies how the built environment disrupts residential proximity to each other, and therefore it identifies segregation. These methods, however, lack the

nuance of the experience of accessing urban amenities through traveling on different sizes of roads.

This paper uses computational methods to determine spatial segregation by modeling the effect of transportation on separating communities. I construct a digital model of the city of Atlanta, GA using spatial, demographic, and transportation data to understand how people move through their environment. Using graph partitioning, a computer algorithm, Atlanta's Road network is split up into smaller chunks so that only the residential roads remain. Each chunk is a collection of intersections held together only by residential roads, which I call *urban pastures*. To leave an urban pasture requires movement along a larger faster road (i.e., highways). An individual in one of these pastures can travel everywhere within the same pasture without using a highway, interstate, or any significant road. Transitions to large roads from residential roads are the fences that compose these pastures and hold citizens to space and community.

Urban pastures show that large roads create space between and discourage the mixing of varying residents. Mobility is an integral part of engaging with other people, whether on the street, stores, or public spaces. Atlanta's roads inhibit movement, and the road network of Atlanta produces the fences that isolate citizens into homogenous communities. Roads block people from accessing different communities because the difficulty of walking, biking, and driving on large roads discourages mobility and limits people to their local areas. Urban pastures show that considering human movement when analyzing spatial data produces novel findings about how infrastructure constricts communities from moving freely throughout cities.

Urban Pastures offer a new level of nuance in road data by accounting for the experience of movement along a road. As SPC only accounts for the distance along a road, this paper argues that the size of the roads also produces structural boundaries in the city of Atlanta. Like SPC this

paper combines large datasets with individual agent-based thinking to better capture experiences on the ground with a model. While SPC utilized roads to calculate proximity, this paper considers the experience of traveling large roads as a processes that segregates urban communities. Relative to previous studies that observed infrastructure acting as static barriers, urban pastures arise from identifying barriers as a combination of infrastructure and dynamic human movement. Considering the complexity of human movement in these large models produces more detailed findings reflective of actual life on the streets.

The next section of this paper will review the literature on urban inequality and modeling in calculating segregation. Section 3 will provide background on the methodology and structures used from computer science to aid in understanding the methods and results of this paper. The driving questions will be drawn in the fourth section. The fifth section will provide an overview of the data used, the computational methods applied to the data structure, and why Atlanta was selected as the case study city. Section six will display the results of these computational tests. The following section discusses the results, the methodology, and their placements in the literature and field. The final section will conclude the paper.

SOCIAL RELATIONS AND THE URBAN ENVIRONMENT

Scholars have long examined how the built environment of cities has shaped the social lives of the people who inhabit them. Classical scholars explored how the growth of modern cities resulted in increased segregation among their inhabitants. In his investigation of the city, Park (1915: 608) reflects how the “big, booming confusion of city life” created “moral distances which make the city a mosaic of little worlds which touch but do not interpenetrate.” Park’s discussion emphasizes how the city’s size, density, and heterogeneity (Wirth 1929) result in the moral and social breakdown of urban communities. Conversely, Simmel (1902-3) observes that

“bodily closeness and lack of space” make for a “swift and continuous shift of external and internal stimuli,” which produce “a rational manner” and “intensification of consciousness” in urbanites (16). The complexity of moving parts of a city produces a shield to block residents from the onslaught of stimulation. Simmel connects residents' lived experiences to their movement within and between urban spaces. Answering Simmel's concerns using computational methods, this thesis considers how the built environment affects the conditions of life on the streets.

Sociologists have also investigated how the spatial layout of infrastructure results in different socializing and relationship building among residents. The physical layout of a city yields different social conditions from a Suburb, which, in turn, produces different social conditions than a rural town. In his famous study *The Levittowners*, Gans (1967) highlighted how the proximity of homes within a suburb “discourage[s] visiting the less adjacent” neighbors, which results in reduced connectivity (Gans, 158). Gans measured how likely residents of a suburb were to interact and build connections with neighbors in all directions (1967). The layout, down the individual building, type of building, and design of a building, affects the lifestyles of those who interact with them. Understanding how physical building impact people's socialization has been done on small scales, but with more current data and computation, these findings are expandable to the scope of entire cities.

The structure of cities organizes people into specific places that align with their objectives, opportunities, and abilities to navigate cities physically. Burgess' concentric circle city model (1925) examines how the built environment organizes people based on accesses to labor, similar identities, and cost of living. This organization however separates people on the dimensions above which creates segregated spaces. More recently, Sampson's *Great American*

City presents a thorough analysis of the relation between society and time and space (2011).

Sampson connected infrastructure to social conditions of space, showed that previous neighborhood conditions predict current conditions, and displayed the effect neighborhoods have on adjacent neighborhoods (206, 114, 241). He used novel methods to measure trust, collective efficacy, and disadvantage to understand how proximity, infrastructure, history, and movement affected people's nature in Chicago (Sampson 2011). Sampson's data effectively highlighted the degree to which granular infrastructure impacted residents' attributes like trust, but his dataset was an expensive, laborious, and timely to produce. Computation provides a much faster way to analyze spatial data and it can holistically consider both citizens and city infrastructure. Like Chicago, Atlanta has a complex relationship with its people and infrastructure.

Scholars have also debated on how the construction of various roads exacerbate or ameliorate residents' sense of social and institutional isolation. Webber (1963) theorized how the construction of interstate highways facilitated residents to seek communities of interest beyond their residential neighborhoods. In his study of sex between men in rest stop bathrooms, Humphreys (1975) also found that interstate highways created the social distance necessary for married men to explore their sexualities away from their families and communities. Conversely, scholars have also considered how the implementation of large roads and highways facilitated the social and residential isolation of marginalized communities. Massey and Denton (1991) explores the central role of highways in constructing the urban ghetto. As the expansion of urban slums around central social and cultural institutions threatened middle- and upper-class whites' sense of safety, containing urban ghettos within highways ensured that Blacks and lower-class residents could not easily access urban spaces valuable to whites.

Debates over the role of roads within cities have also emphasized their role in complicating residents' access to other communities. In her famous challenge to Robert Moses' efforts of clearing historical buildings to construct highways Jacobs (1961), highlight how large roads prevent the kind of contact necessary to create and facilitate strong communities. Supporting the importance of sidewalks and public parks for contact, she emphasizes how healthy communities depend on the ability of residents to move freely throughout the urban landscape. Postmodern urbanisms, which reflect the decentralization of cities due to the connection of various communities through large roads and highway systems, also draw attention to how communities have further insulated themselves from one another, due in large part to the relative difficulty of traveling on highways.

Roads have been studied as static delineations in the urban landscape and as tool to segregate cities, but not as dynamic integrated features. In Atlanta, highways were used to "clear slums and blacks out of downtown" to create an intentional segregated urban landscape (Bayor 1988). In Atlanta large interstates are placed in-between black and white communities, and if viewed from above, act as static separators. Roads, however, are dynamic networks that move people around cities because of the way they are constructed. Computational methods can analyze road networks dynamically to show how road infrastructure organizes people into space.

Urban Sociology and Computation

Identifying segregation through computational methods has been around for the last half-century. Shelling's *Dynamic Models of Segregation* (1971) simulated the development of segregation in abstracted societies. In his models, members of the simulated society had

individual preferences for neighborhood composition, and even with preferences for diversity, the simulated individuals self-segregated (Shelling, 1971). Shelling's simple model defined individual interaction to show the natural emergence of segregation as a social phenomenon. In his simple abstracted world, a single person or agent's complexity is reduced to make a connection between individual and society abundantly clear. Shelling's model stands as the foundation for social simulation and modeling and, specifically, as the father of agent-based modeling (ABM).

More recently, ABMs have represented the more complex elements of societies, foreshadowing their integration into more complex, accurate models representative of actual human life. Shaw's *Mechanics and Dynamics of Social Construction: Modeling the Emergence of Culture from Individual Mental Representation* uses psychological findings of social interaction to show how social performance homogenizes around social groups and space. Her model grows out of the psychological idea that humans "are inherently skilled at and oriented toward "matching" the representations of each other" (Shaw, 79). She models simple interactions between individual agents who impart their performances to their proximate peers. When individuals in her model follow this rule, patterns emerge. Individuals or agents matched the social performances of those around them, resulting in spatial groupings of social performances. Shelling and Shaw's agent-based models (ABM) simulate individual interaction and show that replicating individual action through modeling produces understandings of society-wide dynamics.

Despite abstracting society, Agent-Based Models (ABM) show the relationship between the individual and the emergence of society, and agent-based thinking is starting to enter segregation modeling. These models reduce the complexity of real life "to perform highly

abstract thought experiments that explore plausible mechanisms that may underlie observed patterns” (Macy, Michael W., and Robert Willer). The goal is not to “provide an accurate representation of a particular empirical application” (Macy, Michael W., and Robert Willer). ABMs achieve an ideal understanding of how individuals contribute to and construct their greater society. They achieve this by abstracting the complexities of both the individual and environment. Shown later SPC is the first paper to think about proximity through the road network, and by which is a step towards approaching segregation modeling by thinking about it on an individual level. People obviously travel along the road network, so proximity should be calculated via that network.

Accessible satellite spatial data sets provide promising new pathways for thinking about infrastructure and create digital models that better represent cities. Unlike Sampson’s intensive survey dataset, free spatial data does not require querying people on their experiences (Lazer, et al). Like other large datasets, spatial data, with the correct synthesis, can reveal “novel patterns that challenge existing theories or call out for new ones” (Evans, Foster, 11). Large location data sets can provide insight in to how much, when, and where people spend time with others. They could allude to how people build their social networks (Lazer, et al). Big data unlike previous data sets are comprehensive and detailed enabling the application on both the individual and system wide scale. With infrastructure data, one can know the amenities on a given street and the number of homes in a neighborhood. This data combined with appropriate computer science methodology can allude to the daily life of residents. When spatial datasets are combined with information about the people that inhabit the space, it becomes possible to model the relationship between structure and people.

Large scale segregation models have gone through many iterations methodology and have increased in accuracy as data nuance increases. I've found the spatial proximity and connectivity method (SPC) proposed by Elizabeth Roberto to be at the forefront of segregation modeling.¹ Her paper covers the progression of segregation modeling leading up to her implementation of SPC, and I highly recommend reading her paper if you're interested in computational Sociology. The novelty of SPC is achieved because of the advent of spatial datasets that describe road networks which allows for new, more intimate analysis.

SPC measures how segregated a specific road intersection's proximate space/neighborhood is relative to the citywide racial or attribute composition (could be poverty, education, or another demographic variable). SPC, unlike previous segregation models, thinks proximity as a function of movement pathways not Euclidian distance. Roberto's model works in 6 steps: "(1) linking the geographic data for blocks and roads, (2) estimating the population count and composition at locations on the road network, (3) calculating the distance of the shortest path between all locations, (4) constructing local environments around each location, (5) calculating proximity weights, and (6) measuring segregation."

Measuring how segregated a neighborhood is, is a tricky calculation. Fortunately, Roberto developed an equation for doing so in an earlier 2016 paper, *The Divergence Index: A Decomposable Measure of Segregation and Inequality*. The divergence index compares the racial or other attribute compositions of a neighborhood with the respective compositions of the city. The divergence index, in the case of SPC, compares the ratio of a given group (race, education attainment level, ect) to the same group's composition ratio at the city level. If these two compositions are the same, then the egocentric neighborhood is determined to not be

¹ SPC

segregated, and if the two blocks have different compositions, the divergence index goes up. The Divergence Index is used to calculate how segregated each egocentric neighborhood. This process is repeated for every egocentric neighborhood of each intersection. The result is value that describes how segregated the intersections of a city are. Each index of each intersection can be multiplied by the proportion of the population at that intersection to determine a wholistic segregation measure for a city.

Roberto outlines the equation as:

“The divergence index for location (i.e., node) i’s local environment with a reach of r km is

$$\tilde{D}_{ri} = \sum_m \tilde{\pi}_{rim} \log \frac{\tilde{\pi}_{rim}}{\pi_m},$$

where π_m is group m’s proportion of the region’s (e.g., a city’s) overall population and $\tilde{\pi}_{rim}$ is group m’s proportion of the proximity-weighted population in location i’s local environment with reach r.” \tilde{D}_{ri} represents the divergence index of an egocentric neighborhood.

SPC uses road networks travel distance to determine proximity and the bounds of egocentric neighborhoods which is a huge shift in thinking about segregation modeling. Previous models measured segregation by calculating proximity via Euclidian distances. Figure 3 shows how this process results in different egocentric neighborhood extent. Using road networks to

calculate proximity accounts for the barriers in infrastructure that divide people through movement pathways. Figure 3 shows how the presence of a railroad results in drastically different neighborhood calculations than previous models which used straight line distance. Roberto's model begins to approach calculating citywide segregation by imagining individual life. Instead of using straight line distances which have no representative connection to a person walking through an environment, the road network better represents an individual on the street and is more like Agent based modeling. Agent based segregation calculation has become possible because of the nuanced detailed datasets modern technologies have given accesses to.

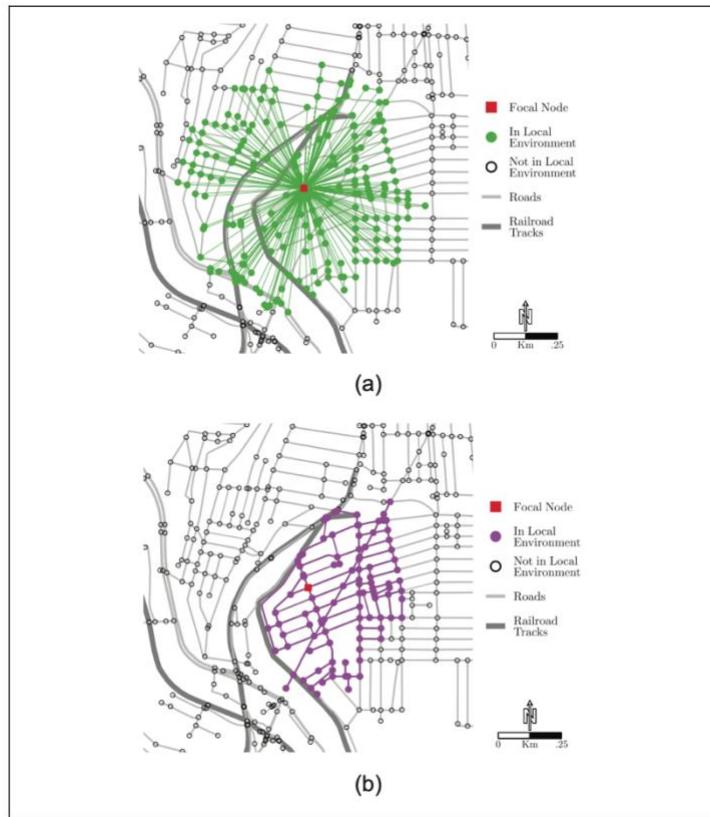


Figure 3. “Comparing a local environment constructed with straight line distance and road network distance (reach of the local environment = .5 km). (a) Local environment constructed with straight line distance. (b) Local environment constructed with road network distance.”

Future citywide computational models should continue to approach identifying social dynamics through the simulation and representation of individual life. Large datasets, better modeling tools, and individual data are making this task more achievable. The model described in this paper will push the representation of individual life in computation further than Roberto's.

Multiple computational modeling techniques will be used to identify boundaries of segregation and analyze inequality.

Preliminaries and Background

Computer scientists are concerned with using the appropriate data structure for the given task. Different problems require different structures to represent the data. For the problems presented in this paper, a graph data structure was the best option for representing Atlanta.

Graphs are great for representing networks making it perfect for representing the road, walk, and bike transportation networks of the city. It's critical to understand what this data structure looks like so that assumptions made are clearly understood.

Graphs are collections of nodes and edges. Figure one shows an example naive graph that represents a road network. Each green dot is a node that represents an intersection in the road network. Each edge connects one edge to another and may have other information associated with it. In Figure 1, the edges have types of residential, secondary, and highway that describe what type of road it is. It's very common for an edge to have a weight associated with it that describes the cost of traveling that edge. In most cases the weight of an edge is the length of the edge. Graphs are also referred to as networks.

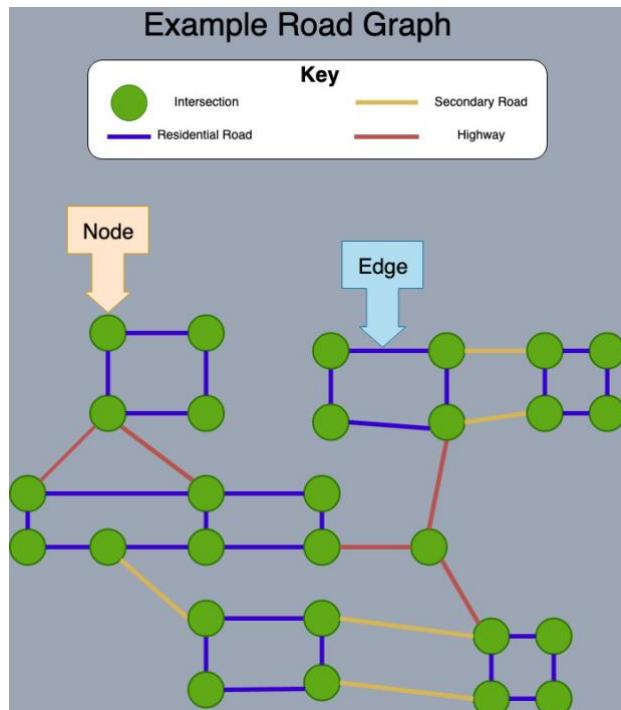


Figure 1. Example Road Graph

Questions and Objectives

Graph Partitioning is an established algorithmic process in computer science. It will be used to this paper to partition the road network to determine sub-graphs or, in other words, to distinguish the smaller groups of the road network. These subgraphs will represent the *Urban Pastures* and provide new understandings for how infrastructure produces segregated places.

Methods and Setting

Setting

Building a model of a real space requires information about the built environment and the people that inhabit the space. Population dense areas are the best real environments to replicate in computer models because they provide the highest resolution. Resolution, in this model, is the accuracy of locating people to a specific spatial area. Higher resolutions provide more certainty in connecting people to a specific location. Spatial certainty is critical when trying to assess the effect space has on people. If demographic data is known for a city block as opposed to a wider neighborhood level, relationships drawn between space and person will be more accurate. Better resolution will reflect how a person's more proximate infrastructure affects them as opposed to a building on the other side of the neighborhood. Thus, to create the most accurate model, individual data should be collected for the smallest spatial unit possible.

Census data provides information on the type of people living in a given spatial delineation. The census block group is the smallest unit of spatial analysis the census provides for Atlanta. Each census block group—regardless of area covered—tries to encompass a residing population of 600 to 3000 people (US Census 2022). Because population determines the geometries (area covered) of these spatial delineations, the denser the place, the smaller the block groups are. In rural areas, census tracts (typically block groups are not collected for rural areas) can be hundreds of miles across, but in a city, a block group may represent a few hundred yards.

This allows for more accurate placement of a person to a specific intersection. The granularity of a block group increases the accuracy of identifying people to a space. The census only collects block groups for cities, and their density makes these spatial units small and therefore precise.

On top of the data resolution reasons listed above, cities have more diversity in the people and structures they house. Diversity in the modeled population allows for comparative analysis based on race, education attainment, poverty, and other demographic measures. Similarly, cities have complexity and variability in their built landscape. This allows for analysis on the effect of multiple types of infrastructure on the condition of people. Equally important to diversity is the prevalence of datapoints within each of these categories. If there was only one census block group that contained people representing an important cohort of the population, it would prohibit accurate analysis because of the small sample size. Cities, however, are heterogenous, populated, and dense, making them great candidates for modeling.

Atlanta was chosen because it accentuated the properties above and has a history of segregation supported through road development. Segregation and inequality problems in Atlanta have been perpetuated through the infrastructure of the city (Bruce Katz et al. 2000). The city is racially divided between the north and the south. The northern census tracts and counties are predominantly white, and the urban center and Southern tracks are predominantly black. Atlanta has three major interstates running through downtown, and another circling the entirety of the city. I-20 cuts the city in half spatially and the northern region is over 80 percent white (Bruce Katz et al. 2000). Atlanta's road network covers the whole city, but many of these roads enable access primarily in the northern half of the city. Outside of roads, Atlanta's public transportation has a tumultuous history improving the mobility of marginalized people.

Throughout the 80's and 90's the city invested heavily in its road network but failed to financially support the Metropolitan Atlanta Rapid Transit Authority (MARTA). The metro lines of MARTA only serve two counties, both of which are predominantly black. In turn, because metro riders are majority African American, it has "limited MARTA's growth [into] predominantly white and well-off suburban areas" (Bruce Katz et al. 2000). Furthermore, MARTA fails to incorporate Cobb, Gwinnett, and Clayton County which contain concentrated employment (Bruce Katz et al. 2000). Other studies have shown that in Atlanta, "residents with the highest need for high quality public transportation have access to some of the lowest levels of transit connectivity" (Bayor 1988). Although this paper does not directly address MARTA, MARTA's bus lines use the road network of Atlanta and thus it is important context to have for this discussion. Atlanta's diverse, complex, and vast built environment, and the history of how infrastructure has been used to segregate citizens makes it a great case study city for modeling.

Data Collection

After selecting Atlanta as the city, a spatial boundary that defined the extent of Atlanta for data collection was set. There is a defined geometry for the city limits of Atlanta, but a larger extent that included surrounding areas and suburbs of Atlanta was used. A bounding box from (33.9, -84.5) and (33.6, -84.25) defined the extent of data collection. This area sufficiently includes the city limits of Atlanta and surrounding suburbs and is broadly defined to follow the bounding interstate of 285. All data was collected within this geographic box.

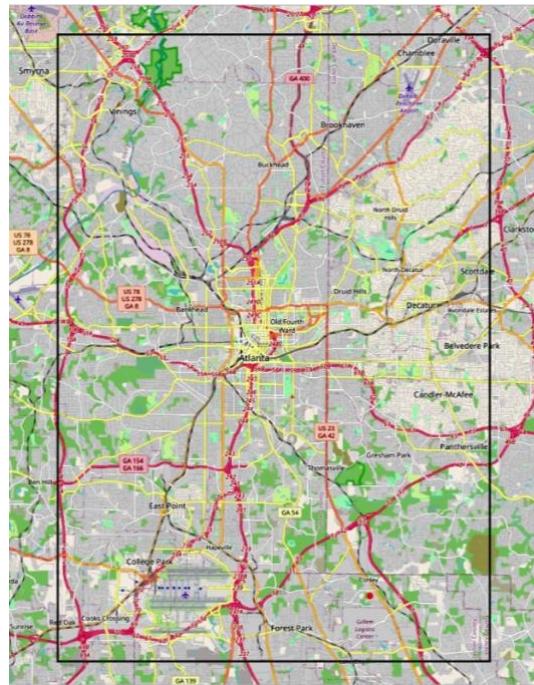


Fig. 4. The bounding box and city limits of Atlanta

Demographic data representing the people of Atlanta was produced by the American Community Survey (ACS). The ACS 2019 five-year estimate dataset represents many dimensions of individual life ranging from race to method of commute. The five-year estimate data set compiles previous years of data and current data to estimate the current conditions. The 2019 ACS demographic datasets were collected through Social Explorer. Social Explorer is a web driven software for interfacing with, selecting, and filtering spatial data into usable data sheets. Social Explorer was used to produce data sheets containing the demographic data for Atlanta. Race, education attainment, and poverty level data was downloaded for all census blocks that were contained or intersected by the bounding box. This data sheet is accessed by the model whenever citizen data is needed.

Retrieving spatial data that represents infrastructure is more complex than querying Social Explorer, but is relatively easy with the use of open-source tools. Although spatial data is accessible to an average person through platforms like Google Maps, downloading and

manipulating this data is difficult and expensive. Fortunately, inaccessibility to private spatial datasets has been mitigated through community action. Open Street Maps (OSM) is the standard open-source spatial dataset for researchers, businesses, and mapping enthusiasts.

OSM enables the free use of a global spatial dataset. The OSM dataset is like those provided by Google Maps or Apple, but downloading, manipulating, and accessing them has been made easier. OSM is user-constructed in a manner similar to Wikipedia where any individual can go to the OSM website and add roads, buildings, cafes, or any another spatial element to the dataset. Any person can log on and record a building and this setting generates a dataset that is built by community members and GIS professionals. Although OSM is the best viable option for opensource spatial data, it lacks the detail of privately owned datasets. Despite this clear disadvantage, the accessibility of OSM makes it the best option for building the digital representation of Atlanta.

OSMNX is a Python library made to download, processes, and visualize road and other transportation networks from OSM. OSMX is dependent on the python libraries of GeoPandas, NetworkX, and Matplotlib, which were also used in the organization of road networks. OSMNX works with the OSM API to retrieve network data for a selected area. The road network data was retrieved for the bounding box, compressed, and stored as graphs.

Graphs function well with networks and spatial data, and there are hundreds of algorithms that partition, traverse, and describe properties of graphs. Graphs are collections of nodes connected to other nodes by edges. In this dataset nodes are intersections of the road network and the edges represent the road length connecting each intersection to its proximate intersections.

Graph Partitioning

Graph partitioning is an effective way to determine the natural sub-graphs of a graph. In the case of Atlanta's road network, the sub-graphs become the urban pastures of Atlanta. There are many algorithms that separate graphs, and the one used here removes high weight edges until smaller chunks of the graph are discontinuous from each other. The road network was separated because road edges have different types that distinguish the difficulty of movement along a road edge. The weight (difficulty of movement) of a road edge used here is the average speed limit. In Atlanta, the OSM road network has fourteen different types of roads which have different average speed limits across the city. These road types and respective speed limits are shown in Table 1. The average speed of each type of road for Atlanta was calculated by recording the speed limit, if given, for each road of each type and finding the mean. Two types, "disused" and "living street," had no roads in the road network with given speed limits, so no average was found.

Road Type	Average Speed
Residential	25.6349539
Tertiary	34.1242284
Secondary link	41.1111111
Tertiary link	30
Trunk link	30
Motorway link	58.36134454
Motorway	60.460199
Secondary	36.49489322
Unclassified	24.07594937
Trunk	39.37967115
Primary	38.09659091
Primary link	31
Disused	N/A
Living street	N/A

Table 1. The roads and their speed limits of Atlanta, GA

The speeds of each road type are a proxy for the difficulty of moment to, along, and off each road type. Motorways average speed limit is highest, thus suggesting that it would require an individual more effort both to get to and to drive this larger road. Removing road types from

the road network that have more extreme speed limits results in sub-graphs that are connected by easier to move along roads. These subgraphs then represent the urban pastures of Atlanta.

The graph partitioning algorithm used here removed all road types from the Atlanta Road network besides residential roads. Although unclassified roads on average have a lower speed limit, they were removed because their addition had little influence on the subgraphs produced and there were very few of them. Typically, their presence was removed when trimming the subgraphs of size <10. Each road of each type was removed from the large graph until only intersections that were connected by residential road types remained.

Removing all edges besides those labeled as residential produced a total of 5733 sub graphs. Most of these subgraphs contain a small number (<10) of intersections. The average size of the connected components was 4.989 nodes, and only the subgraphs containing more than 10 nodes were saved for analysis. All 357 of the subgraphs greater than ten intersections in size were saved to a file for further analysis.

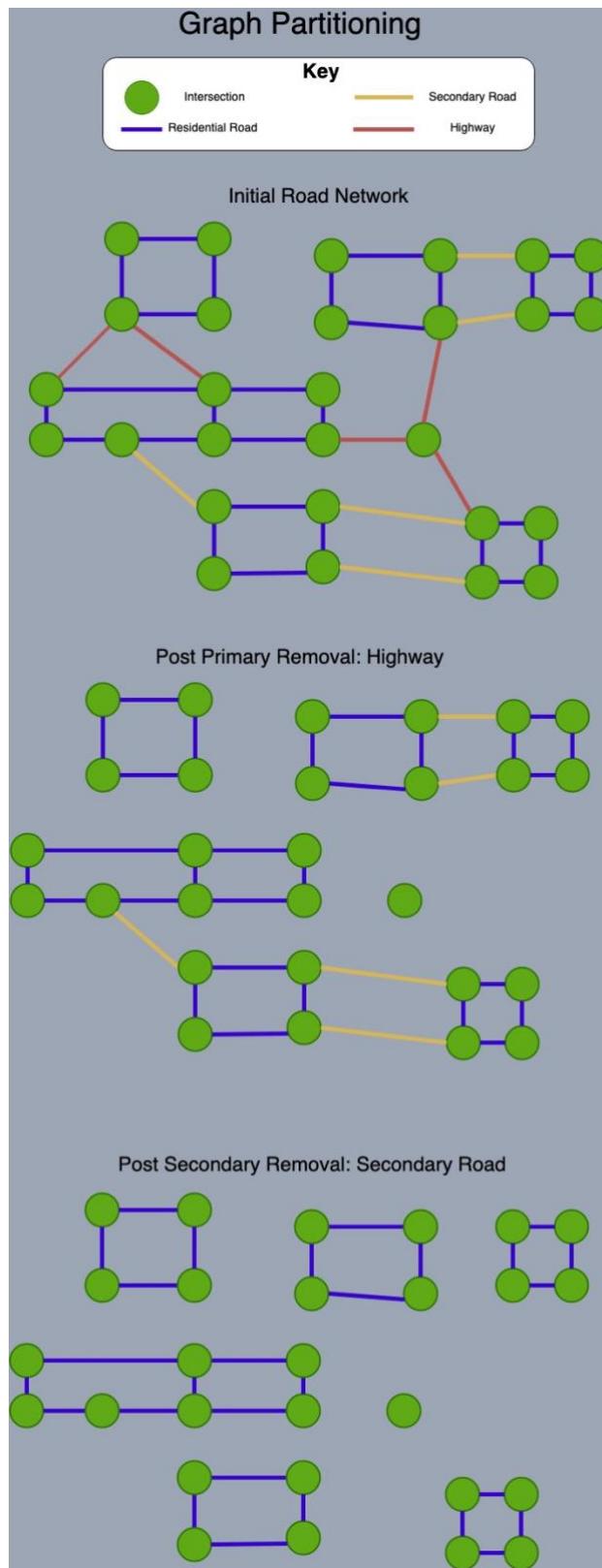


Figure. 6. Graph Partitioning example

Homogeneity and Content Analysis

The homogeneity of each subgraph was tested for race, education attainment, and poverty levels. For race, only the percent black and white was tested for homogeneity because these two racial groups make up most of the population in each census block. The homogeneity of each subgraph was determined by iterating through each intersection, retrieved data from the census block that the intersection fell within. The demographic data of the census block was recorded for each intersection and the number of census blocks queried was recorded for each subgraph. After recording demographic data for a whole subgraph, the standard deviation was calculated to determine the variance demographic data from the census blocks the subgraphs covered.

Results

Figure 7 shows all the intersections in the road network of Atlanta. Figure 8 displays the urban pastures (Sub Graphs) made through the graph partitioning algorithm described above. The intersections of the urban pastures have been assigned different colors so one can be seen from others. Only networks with greater than 10 intersections are shown in Figure 8. There are 357 subgraphs of size greater than 10 intersections, and the largest subgraph contains 935 intersections. The average size of these subgraphs is 54.4 intersection with a median of 19. Each of these subgraphs cover an average of 1.98 census blocks; 133 of the 357 subgraphs shown only contain nodes within a single census block. The density of all subgraphs, measured by road length, was 137 meters and varied by about 10%. This information along with the respective racial, poverty, and education data is displayed in Table 1.

Each subgraph of Atlanta is extremely homogenous in each demographic variable tested. For every demographic variable the standard deviation of each graph was calculated. The average of the standard deviations of every graph is less than 1, and no individual standard

deviation exceeded 1 (see appendix for tables). The variation in demographic data for each node was extremely low.



Figure 7. All of the intersections of Atlanta's road network

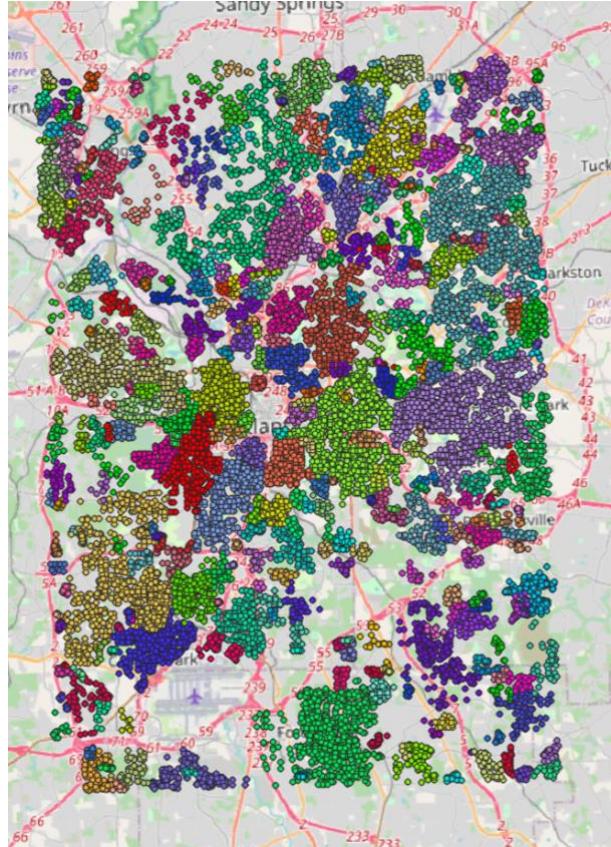


Figure 8. The connected components after partition

Discussion

Figure 8 shows the urban pastures of Atlanta. The delineations, or fences, of these pastures, represent the limits reachable by residential roads without needing to enter a larger road. Scholars have largely conceptualized roads as static barriers. However, this paper accounts for how the movement of people along roads also creates barriers and results in separation, nuancing our understanding of urban roads in scholarly literature. Drawing on computational methods allows us to view roads as complex systems that interact with and impact the movement

of residents. Larger roads act as fences that discourage the residents in Atlanta from accessing other communities, which perpetuates a segregated built environment.

These findings depend on the reality that higher-speed roads increase the difficulty of movement. This idea may seem counterintuitive because urban scholarship has emphasized the role of larger roads in allowing quick movement over far distances. However, entering and traveling these large roads poses a challenge for specific communities. Large roads pose barriers as inaccessible movement pathways. To reach a destination outside of a pasture requires the energy to enter and exit a highway. When accounting for traffic flows and congestion, entering and exiting takes up valuable time in a person's day. Staying within a residential system allows for slow yet more straightforward access to their community. Residential roads are also more conducive to other more accessible forms of commuting like walking and riding a bike. Changes from residential to highways or other significant roads are the fences of urban pastures.

The tension created by the connectivity of residential roads also bounds residents to urban pastures. The speed of travel along a road is a proxy for a person's connection to their environment. Residential roads are the slowest prevalent roads in Atlanta and thus act as the fabric connecting communities. People moving along these roads see the streets, interface with the people, and, in turn, are more impacted by the environment than an individual speeding down the interstate. These roads hold space together because they are the most intimately tied to space and act as a glue holding urban pastures together.

The containment of residents to urban pastures produces communities. Restricting the movement of people out of pastures forces residents to interact with each other, build connections to space, and develop relationships with accessible amenities. Residents will walk the streets of their pasture and run into familiar faces and develop community. Residents of

urban pasture will frequent the same grocery stores and local institutions. Social life is a product of space and iterative interaction, and thus the physical and dynamic space of an urban pasture is a cement mixer of socializing and community-building. Proximity creates connections due to the ease of movement through residential roads, and urban pastures force proximity.

The communities contained within the pastures are homogenous. This is not surprising given that most urban pastures fall within a single census block. The culture, residential composition, and spaces may not vary in these pastures because of their homogeneity. The Urban Pastures are homogenous communities with less than one standard deviation in the three demographic variables tested. Due to this homogeneity, to reach a demographically different group, an individual needs to travel along a larger road showing that road mobility further accentuates segregation. Communities are isolated and inaccessible to other communities because of the road network, and casual social interactions that may lead to community building will not happen across two different pastures. Roads are barriers to integration, and urban pastures are the spatial areas that the road network organizes people into.

The final element of this urban pasture analysis is that movement on these large roads is not equivalently easy and accessible for every citizen. Highways and larger roads require time and a car to travel. They are not built to be movement pathways for those without the capacity to buy a car. This makes urban pastures one-way valves for those privileged enough to use large roads. Individuals without the means to travel large roads are stuck in their pastures, while those who have the means of travel can leave and enter other pastures on their own will. This makes pastures possible barriers to less marginalized residents and accentuates their bounding effect on those who are marginalized. Urban pastures are infrastructural boundaries that scale with the privilege of those being contained. Those who are privileged can escape, and those who are

marginalized are stuck. In this way, urban pastures fully embody their analogy and act as tools to fence marginalized people to certain parts of a city.

Outside of this study, urban pastures are valuable units of measurement for future research. Instead of researching at the neighborhood level, the subgraphs prove to be a new spatial unit to conducted research on. Neighborhoods of cities may be socially or historically constructed, but urban pastures are physical delineations in the urban landscape. Urban pastures may prove to be a better unit to conduct research because their extent is dilinated by the urban landscape. Further explorations of the ecological conditions that shape individual urban pastures will deepen our understanding of the separation of people, how movement plays into interaction, and how placemaking occurs on residential roads.

Future computational research should continue to integrate nuance into modeling. This model, SPC, and multiple transit networks should be combined to make a more accurate segregation model. SPC only thinks about proximity in terms of the road network, but people move along public transport, bike and walking networks which changes how proximity should be calculates. Likewise, SPC should consider nuance the speed along larger roads that this analysis explores. Again, proximity along a road network varies by the nature of the road, and this change in proximity should figure in the calculation of an egocentric neighborhood. Combining all the elements into one model will better calculate proximity and therefore produce a more accurate understanding of segregation.

Conclusion

The way road networks are constructed discourages travel which creates barriers in the built enviroment. Accounting for the way people move produces delineations in roads networks resulting urban landscape. These delineations arise because the effort required to leave an urban

pasture necessitates traveling along larger roads and interstate highways, which may not even be feasible if an individual does not own a car. The urban pastures of Atlanta are homogenous along the three demographic variables tested, which means there are making for isolated homogenous communities splattered across the city.

Urban pastures are social and community-building venues. Residents share the same spaces, amenities, and homes. The internal proximity and accessibility to nearby residents result in community and place-making development. These communities reflect constructs of the built environment and the movement of residents. Urban pastures also act as a one-way valve allowing those who have cars and the time to spend traveling these larger roads to mobilize and access communities of interest (Webber 1963). Marginalized residents may not have the time or resources, like a vehicle, to travel these larger roads. Urban pastures embody their analogy by fully acting as fenced-off city areas, thereby trapping residents. Urban pastures add another dimension to urban inequality literature by describing how road networks produce unequal urban landscapes.

Above all, urban pastures provide new ways of thinking about space and people. They illustrate how urban landscapes limit the movement and actions of residents. Residents remain heavily impacted by the construction of urban spaces and infrastructure, which shapes their social lives within cities. Analyzing urban pastures allows us to study the city of Atlanta under a different lens by assessing how infrastructure interacts with the movement of people. Analyzing these infrastructure elements can be done on the ground or through interviewing. Still, computational methods can consider even more subtle elements of daily life and create models that provide a complex analysis of systemic inequity that would otherwise be unseen.

Computation enables city-wide analysis at a granular level which produces a better understanding of the entirety of a city as a system. It is challenging to have a holistic view of a city as accurately as the modeling extensive data and computation can produce. Urban pastures require the analysis of thousands of different roads, all with different characteristics, which is an impossible task for an individual. These spatial datasets open new methods to analyze cities at both a system-wide and individual level. However, current spatial datasets lack the nuance and detail of targeted surveys and previous empirical methods that scholars have used to measure the presence and persistence of community segregation.

Researchers have been measuring segregation for the last 100 years. Studies have involved surveying, interviews, and observation simply through walking the streets as ways to study and prove that people are separated from different people. This literature shows that the built environment organizes people into spaces for pursuing various opportunities that improve their lived experiences, including housing, social relationships, access to culture and leisure, and many other reasons. Urban pastures contribute to this overwhelming finding by suggesting that the way people interact with roads separates them into fenced-off communities. People are stuck in place because roads partition people into pastures. Our understanding of the urban environment will only increase, and computation provides many valuable methods to better understand this process.

Looking through the lens of urban pastures encourages us to understand segregation through new methods and provides a new segregation unit in cities. Computational methods of measuring segregation will enable scholars to consider new forms of movements, thus increasing our understanding of life on the ground for an entire city. As data quality increases, these city-wide models will only get better at simulating the conditions on the ground in a city.

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Appendix

Table 2.1 - Race

id	Number of Intersections in Urban Pasture	Census Blocks Covered	%White	Standard Deviation	%Black or African American Alone	Standard Deviation
0	11	1	0.1979434 5	0	0.6338367 61	0
1	694	6	0.2505294 7	0.0977576 58	0.4828263 97	0.1513032 86
2	16	1	0.1889640 8	0	0.7183758 46	0
3	19	2	0.1794785 5	0.0239256 69	0.7051057 64	0.0270426 24
4	183	3	0.0381038	0.0352966 3	0.8746134 61	0.1058088 51
5	26	1	0.3000923 4	0	0.4713758 08	0
6	28	1	0.1656051	0	0.5276008 49	0
7	11	2	0.1685449 5	0.0097503 79	0.5372586 59	0.0320313 33
8	83	1	0.1889640 8	0	0.7183758 46	0
9	13	1	0.0441786 5	0.0066670 01	0.8884269 78	0.0023760 88
10	230	2	0.0911007 1	0.0769050 01	0.8325665 27	0.1443249 58
11	15	2	0.1566719 9	0.0154026 01	0.7456106 82	0.0339803 62
12	83	3	0.1711129 7	0.0328895 62	0.7633531 54	0.0362629 64
13	29	2	0.1299630 6	0.1274590 39	0.8300215 86	0.1429903 91
14	21	1	0.1979434 5	0	0.6338367 61	0
15	48	3	0.2023177 1	0.0353818 7	0.6271085 06	0.0345428 63
16	48	2	0.0500389	0.0242461 95	0.9310634 52	0.0170650 74

17	15	1	0.1956288 8	0.0033881 79	0.6906904 58	0.0832252 91
18	51	2	0.1945217 8	0.0232056 94	0.6062728 67	0.0646717 06
19	25	2	0.5012372 5	0.0229866 7	0.4592259 45	0.0158706 24
20	346	5	0.2995980 9	0.2238201 33	0.5641230 51	0.2777853 53
21	14	2	0.0475253 5	0.1130329 86	0.7644106 04	0.0999581 42
22	30	2	0.0558167 2	0.0483323 37	0.9018238 42	0.0773690 41
23	14	2	0.1542200 1	0.0125844 71	0.7414115 98	0.0309621 68
24	111	3	0.5320926 4	0.2140201 86	0.1335796 39	0.0347532 21
25	20	1	0.5178641 5	0 0	0.4063604 24	0 0
26	14	2	0.5451255 3	0.0977847 88	0.3474456 86	0.0752992 63
27	161	1	0.4359722 7	0 0	0.4122583	0 0
28	14	1	0.6064908 6	0.1150892 9	0.1914703 99	0.0104308 19
29	21	2	0.5518265 2	0.0513360 15	0.3549514 3	0.0323861 77
30	133	3	0.7897465	0.2040020 17	0.1261375 23	0.1952400 77
31	28	1	0.2666195 2	0 0	0.4978783 59	0 0
32	17	1	0.4205128 2	0 0	0.4479853 48	0 0
33	16	2	0.4423260 9	0.0596051 9	0.4223742 94	0.0699827 23
34	165	3	0.4518311 2	0.1690926 29	0.4329193 65	0.2208283 56
35	13	1	0.4205128 2	0 0	0.4479853 48	0 0
36	18	2	0.4369359 3	0.0344502 53	0.1841888 99	0.0344563 41
37	12	2	0.4327833	0.0368031 06	0.1800355 28	0.0368096 1

38	29	1	0.6356852 1	0	0.1716417 91	0
39	15	2	0.4532450 7	0.1214831 85	0.4171431 71	0.0766396 84
40	12	1	0.5413333 3	0	0.404	0
41	22	1	0.3308088 5	0	0.2659800 06	0
42	115	3	0.6236471 2	0.1188238 77	0.2417717 2	0.0934305 64
43	16	1	0.5712596 1	0	0.3273211 12	0
44	13	1	0.5876662 6	0	0.3107617 9	0
45	13	2	0.3289435 7	0.0015348 41	0.4077131 08	0.1166251 87
46	16	1	0.5876662 6	0	0.3107617 9	0
47	13	1	0.5712596 1	0	0.3273211 12	0
48	19	1	0.559172	0.0843021 08	0.3036561 66	0.0696882 21
49	28	2	0.5105054 6	0.0270190 02	0.3997204 62	0.0243800 38
50	29	1	0.5712596 1	0	0.3273211 12	0
51	18	1	0.5272788	0.0409047 12	0.3939334 4	0.0292979 93
52	21	3	0.2951669 6	0.1175825 86	0.5715189 73	0.1068856 62
53	17	2	0.4886784 8	0.0494700 77	0.2469935 27	0.0671289 43
54	19	1	0.3443276 6	0.0589271 33	0.2683369 42	0.0102736 46
55	15	1	0.5398317 7	0	0.3196437 41	0
56	135	2	0.7284077 6	0.1744757 07	0.0967267 32	0.0671489 38
57	204	4	0.8618802 5	0.0695439 35	0.0873287 86	0.0528734 03
58	870	4	0.5277441 5	0.2530858 2	0.4067569 43	0.2649044 55

59	178	4	0.0975068 3	0.0726811 59	0.8552854 72	0.1008941 41
60	59	3	0.6831994 7	0.1161357 33	0.1107214 6	0.0875170 26
61	13	1	0.5832809 6	0	0.1885606 54	0
62	18	1	0.4332712 6	0	0.3600248 29	0
63	137	3	0.0150942 9	0.0082876 11	0.9385934 9	0.0259330 78
64	50	2	0.7669238 9	0.1185041 72	0.1014693 22	0.0666047 51
65	797	5	0.7565274 9	0.1222290 5	0.1083220 57	0.0767408 32
66	18	1	0.0249534 5	0	0.8797020 48	0
67	15	3	0.8873538 6	0.0343085 76	0.0292524 97	0.0184795 86
68	64	3	0.7513819 7	0.1853529 53	0.1485113 12	0.2050685 63
69	120	4	0.7827176 2	0.2042286 95	0.1343500 62	0.2038525 2
70	112	2	0.2489110 9	0.0726331 39	0.6427135 32	0.0733638 62
71	314	4	0.8098767 8	0.0814126 54	0.0584881 33	0.0359963 87
72	13	1	0.7556179 8	0	0.0404494 38	0
73	76	4	0.2967669	0.1076461 07	0.6335275 5	0.1163780 39
74	12	1	0.4942528 7	0	0.4195402 3	0
75	38	2	0.7392384 8	0.2047190 52	0.1914453 54	0.1787788 2
76	935	4	0.6533282 8	0.1823819 82	0.2736751 04	0.1831629 18
77	27	3	0.3935483 3	0.1324817 15	0.1820114 63	0.1283829 89
78	96	3	0.6878676 2	0.1986146 53	0.1697659 65	0.1865359 82
79	254	3	0.6867244 5	0.1442326 94	0.0947393 86	0.0743938 45

80	14	2	0.7402577 6	0.1330076 72	0.1339569 03	0.0989489 46
81	20	1	0.0372670 8	0	0.9627329 19	0
82	18	2	0.4493070 6	0.0894766 46	0.0476674 25	0.0142224 72
83	17	2	0.0180972 9	0.0017667 92	0.9504813 57	0.0182394 1
84	352	5	0.8751832 4	0.0738357 39	0.0446598 55	0.0505016 7
85	168	3	0.4927994 1	0.2012116 3	0.0832796 58	0.0371791 71
86	45	1	0.0148	0	0.9368	0
87	119	3	0.7359484 3	0.1187755 47	0.0990973 18	0.0157271 58
88	14	2	0.5695730 8	0.0178038 13	0.1984560 44	0.0542799 19
89	25	2	0.4804623 4	0.0317915 35	0.4020656 23	0.0712707 46
90	63	4	0.7320651 7	0.1282240 49	0.1143953 4	0.0630310 44
91	16	2	0.0793046 1	0.0130970 49	0.9090398 48	0.0136628 2
92	13	1	0.0276713 5	0	0.9723286 5	0
93	62	2	0.0471911 4	0.0112582 71	0.9309281 37	0.0056536 2
94	19	1	0.0275283	0.0006235 3	0.9674535 66	0.02125
95	95	4	0.1568110 9	0.1016864 14	0.7950449 44	0.1005586 53
96	78	3	0.0812898 8	0.0080371 5	0.9071856 54	0.0097073 42
97	11	1	0.8938917 5	0.0048249 4	0.0320776 54	0.0050936 42
98	13	3	0.0827446 6	0.0692235 99	0.9007038 49	0.0757465 99
99	18	2	0.0796684 2	0.0123480 16	0.9086603 25	0.0128814 3
100	28	3	0.8265394 7	0.1373849 03	0.1057122 93	0.0588845 21
101	14	2	0.0895728 1	0.0460486 1	0.8964856 72	0.0453731 16

102	50	2	0.6086004 6	0.0652825 53	0.2021975 84	0.0468363 87
103	11	2	0.6497870 4	0.2767660 92	0.2018049 16	0.1886175 52
104	13	1	0.0735768	0	0.9060150 38	0
105	158	4	0.7651276 3	0.1529458 05	0.0998931 39	0.1068216 61
106	75	3	0.7200130 9	0.1085655 24	0.1486228 13	0.0640136 8
107	52	3	0.8978283 6	0.0205010 56	0.0366597 79	0.0091739 02
108	14	2	0.0162439 9	0.0115244 53	0.9730805 62	0.0028717 95
109	16	2	0.9164997 5	0.0075112 67	0.0194667	0.0022533 8
110	20	1	0.3034187 9	0.0503685 89	0.6349168 67	0.0680592 67
111	12	2	0.4716423 2	0.0783252 45	0.4438623 38	0.0842542 55
112	37	3	0.7133706 1	0.1144550 72	0.1781433 13	0.0371897 52
113	14	1	0.0162400 8	0.0053882 95	0.9383413 98	0.0057673 85
114	24	1	0.7529850 8	0	0.1865671 64	0
115	19	1	0.0046680 5	0	0.9522821 58	0
116	25	2	0.5834672 3	0.0305271 81	0.1560958 42	0.0930706 73
117	33	2	0.0238103 7	0.0069260 07	0.9595663 16	0.0210331 06
118	15	3	0.3916246 4	0.0481582 45	0.0230458 76	0.0092808 66
119	18	3	0.1025392 5	0.0339829 1	0.8406627 99	0.0201652 41
120	26	2	0.0322056 1	0.0102741 71	0.9581734 51	0.0107179 98
121	11	2	0.7928135 9	0.0703879 01	0.1157852 95	0.0697227 6
122	12	2	0.5640802 8	0.0920442 22	0.1908194 04	0.0339921 28

123	11	2	0.4879009 1	0.2966894 57	0.0460954 29	0.0186874 82
124	11	2	0.7758280 6	0.0377915 58	0.1044985 14	0.0452595 96
125	19	2	0.3842756 9	0.0480878 26	0.5251489 6	0.0275342 29
126	21	1	0.0660186 3	0	0.8209801 54	0
127	21	3	0.8589006	0.0933619 49	0.0615137 99	0.0401965 79
128	12	1	0.1217838 8	0	0.8387650 09	0
129	11	1	0.0276713 5	0	0.9723286 5	0
130	14	2	0.1678555 4	0.0403477 86	0.8233677 9	0.0428738 85
131	11	1	0.0046680 5	0	0.9522821 58	0
132	52	2	0.1140194 5	0.0754167 2	0.8784097 54	0.0710024 62
133	19	3	0.5514617 8	0.1683034 01	0.2671491 73	0.0878501 08
134	15	2	0.0616236	0.0265656 65	0.9274846 55	0.0277132 58
135	17	2	0.0253865	0.0055405 82	0.9643527 57	0.0168258 05
136	25	2	0.6278850 5	0.0967115 54	0.2802770 33	0.0937763 58
137	16	2	0.7791653 4	0.0431068 99	0.1198849 26	0.0299553 38
138	20	2	0.3115839 2	0.1123824 44	0.2838272 2	0.0318461 95
139	24	1	0.8452012 4	0	0.0712074 3	0
140	22	2	0.7256521 5	0.0217938 75	0.0984268 59	0.0024333 96
141	12	1	0.3669600 5	0	0.2010832 77	0
142	15	2	0.5540796	0.1421199 47	0.1668860 16	0.0569824 98
143	44	3	0.5485269 9	0.0439816 35	0.3317888 17	0.0376032 72

144	19	3	0.3303540 3	0.0811507 4	0.6308591 62	0.0855746
145	18	2	0.1968523 2	0.0546005 23	0.7246619 4	0.0846149 59
146	28	2	0.8836827 5	0.0148216 83	0.0329011 16	0.0090735 18
147	28	3	0.4416266 7	0.1215300 24	0.3397225 71	0.0860542 44
148	16	2	0.0769993 1	0.0131489 44	0.8993624 73	0.0215354 38
149	33	2	0.1001532 4	0.0193653 43	0.8584959 56	0.0290115 51
150	12	3	0.4076757 7	0.1509099 68	0.2692855 12	0.1238141 38
151	12	1	0.8924369 8	0	0.0336134 45	0
152	43	2	0.9085630 6	0.0385158 04	0.0304388 11	0.0262095 33
153	13	1	0.3981603 1	0.1035451 49	0.3633118 17	0.0715487 8
154	17	2	0.5474408 7	0.0372291 67	0.2689065 84	0.0336169 27
155	11	1	0.2740619 9	0	0.0326264 27	0
156	15	2	0.5729986 7	0.263559	0.2733888 64	0.1957613 32
157	11	1	0.0335403 7	0	0.9093167 7	0
158	18	2	0.7405714 6	0.0183344 16	0.1038410 05	0.0022655 48
159	12	1	0.5342723	0	0.2694835 68	0
160	11	2	0.9456429 9	0.0543573 7	0.0108795 87	0.0242055 53
161	20	3	0.1831270 6	0.0462352 51	0.8056464 38	0.0433079 46
162	24	2	0.1073830 4	0.1252916 27	0.8717912 89	0.1536657 59
163	18	1	0.7525702 5	0	0.0849897 19	0
164	42	1	0.5252121 9	0.0621562 35	0.2176443 29	0.0300116 07

165	13	1	0.6382990 6	0.0247646 28	0.0203211 83	0.0376963 28
166	29	1	0.8275310 1	0.0226434 52	0.0814243 14	0.0380195 19
167	11	1	0.9238917 2	0	0.0200078 46	0
168	23	1	0.7256186 3	0	0.0400291 12	0
169	14	1	0.0148	0	0.9368	0
170	14	1	0.0735768	0	0.9060150 38	0
171	12	2	0.0410430 6	0.0130803 88	0.9579738 55	0.0164858 84
172	22	1	0.5962741 3	0.1071299 75	0.2108723 85	0.0497379 57
173	11	1	0.5788043 5	0	0.2072010 87	0
174	14	1	0.9252963 1	0.0052554 92	0.0210649 39	0.0039552 8
175	102	5	0.0750172 5	0.0872760 97	0.9081753 27	0.0981080 66
176	31	1	0.6118287 8	0.0224971 45	0.2774239 57	0.0419453 77
177	27	1	0.3601461 5	0.0471607 71	0.4877657 12	0.1455945 46
178	52	2	0.8016529 7	0.0556102 41	0.0922368 72	0.0189553 55
179	383	3	0.1097666 4	0.1071136 36	0.8295338 85	0.1410439 8
180	372	4	0.1450624 9	0.0902088 85	0.8064882 18	0.0886798 5
181	170	3	0.7746467 9	0.1300733 4	0.1499438 05	0.1644409 36
182	44	2	0.8039845 2	0.0355413 65	0.0833610 73	0.0141714 91
183	95	2	0.0387825 8	0.0426102 34	0.9565706 36	0.0408923 25
184	203	6	0.3463780 7	0.1696003 79	0.5345939 16	0.1899159 46
185	27	4	0.0220257 1	0.0117994 95	0.9283234 95	0.0371120 05
186	554	4	0.8679705 9	0.1081237 64	0.0679503 77	0.0690115 05

187	23	1	0.0194285 7	0	0.9017142 86	0
188	80	3	0.0310174 6	0.0262245 8	0.9421808 01	0.0485514 41
189	19	1	0.0325411 3	0	0.9499085 92	0
190	13	1	0.0331196 6	0	0.9052706 55	0
191	160	3	0.7453019 4	0.1196273 01	0.1603675 01	0.0978028 14
192	37	2	0.7675652 8	0.0148151 89	0.1193180 9	0.0301223 88
193	17	1	0	0	1	0
194	46	3	0.4190964 8	0.0997683 26	0.5259230 56	0.1376394 02
195	16	1	0.7959866 2	0	0.0802675 59	0
196	50	4	0.0650551 7	0.0438841 8	0.9345555 33	0.0446566 53
197	25	1	0.0283159 5	0	0.9701937 41	0
198	16	2	0.0681631 4	0.1349077 75	0.9023005 05	0.1312567 87
199	17	1	0.4787076 5	0.0181760 42	0.2227641 89	0.0308965 23
200	12	1	0.0516563 7	0	0.9416058 39	0
201	101	3	0.0575792 1	0.0161578 06	0.9209193 09	0.0169436 49
202	73	2	0.3482514 7	0.0079943 65	0.3123575 51	0.0102541 23
203	22	3	0.9506815 7	0.0880715 39	0.0155313 2	0.0479136 22
204	188	3	0.6679420 3	0.2462454 5	0.2467174 39	0.2617039 86
205	46	2	0.0174386 7	0.0003535 99	0.9778221 56	0.0010106 8
206	39	2	0.0341499 7	0.0062977 01	0.8722733 95	0.0144884 73
207	171	4	0.8656407	0.1222627 99	0.0833905 01	0.0900511 09
208	26	1	0	0	1	0

209	45	2	0.0845554 2	0.0016553 22	0.8951438 29	0.0119338 45
210	11	2	0.0191195 1	0.0107912 58	0.9650202 95	0.0077656 96
211	697	6	0.1545205 6	0.1621510 96	0.7897136 41	0.1951221 23
212	421	4	0.0323128 4	0.0472067 73	0.9541453 08	0.0575121 89
213	29	2	0.0416920 1	0.0089260 32	0.9565093 83	0.0075915 08
214	40	1	0.5619341 1	0.0481181 59	0.2156815 9	0.0126459 29
215	76	1	0.0758534 5	0.0237542 97	0.8695164 62	0.0253294 18
216	11	1	0.8230251 1	0	0.0496019 6	0
217	204	4	0.3047326 8	0.1700936 57	0.6115628 74	0.2340197 85
218	309	4	0.0435607 7	0.0631385 39	0.9314830 7	0.0765493 87
219	39	2	0.5347231 8	0.0982230 84	0.3500542 45	0.1102304 32
220	67	2	0.4996966 5	0.0148700 77	0.2060140 99	0.0449108 74
221	59	3	0.0304334 1	0.0319075 59	0.9358241 96	0.0527479 31
222	12	1	0.0379752 2	0.0082500 47	0.9554503 6	0.0083485 6
223	224	3	0.4715247 7	0.2836855 23	0.4700451 7	0.2897142 07
224	28	2	0.6653407 8	0.0228289 53	0.2416515 32	0.0195538 9
225	14	1	0.6828597 6	0	0.2719981 67	0
226	24	3	0.8511715 8	0.0646915 3	0.0941067 31	0.0323635 8
227	21	1	0.4576317 6	0	0.2585900 07	0
228	35	2	0.2775194	0.1363267 71	0.6954189 74	0.1460658 61
229	153	4	0.0356227 8	0.0248475 36	0.9438138 25	0.0361635 69

230	12	1	0.0516563 7	0	0.9416058 39	0
231	100	4	0.0650542 5	0.0499513 68	0.8875041 53	0.0370694 29
232	12	1	0.0622652 3	0.0025453 09	0.9248963 73	0.0072871 78
233	19	2	0.3649620 9	0.0019448 67	0.5625272 41	0.0420229 52
234	34	1	0.0106809 1	0	0.9432576 77	0
235	14	2	0.6744682 6	0.0876917 28	0.2552621 94	0.0935829 22
236	23	3	0.0395161 5	0.0093725 24	0.9310642 33	0.0220612 5
237	64	1	0.4834764 4	0.0434595 34	0.2055649 39	0.0183618 54
238	39	2	0.8585606 6	0.0692861 74	0.0427502 73	0.0601820 16
239	156	2	0.0578586 9	0.0335285 56	0.9417712 67	0.0339274 53
240	34	3	0.8610150 9	0.0468888 93	0.1289169 92	0.0556452 85
241	58	4	0.9396371 6	0.0660467 76	0.0332373 14	0.0313007 79
242	60	3	0.6200029 6	0.0497426 48	0.2435227 24	0.0593117 09
243	14	1	0.2084368 6	0.0847377 22	0.7008569 64	0.0940454 63
244	28	3	0.8120811 4	0.0583847 49	0.0602512 78	0.0422287 14
245	14	2	0.4584536 2	0.1194464 22	0.4394886 88	0.1434736 47
246	11	2	0.4589177 9	0.1362546 04	0.4801976 51	0.1784717
247	94	2	0.5936581 7	0.0358993 57	0.3232620 84	0.0350863 25
248	18	2	0.9894772 3	0.0382538 61	0	0
249	32	2	0.1241923 2	0.0815618 85	0.7800766 83	0.0741913 65
250	12	1	0	0	0.9059660 21	0

251	38	2	0.0050710 7	0.0039250 85	0.9611684 39	0.0259572 76
252	41	2	0.0170295 1	0.0194890 93	0.9603503 21	0.0393157 86
253	18	2	0.7941680 1	0.0606780 38	0.1240356 82	0.0692365 9
254	55	1	0.6271008 4	0	0.2489495 8	0
255	18	1	0.3533965 6	0.0689919 41	0.6133057 16	0.0773019 56
256	32	3	0.5863700 6	0.0547315 36	0.3702394 56	0.0807459 32
257	38	2	0.6914857 9	0.0363494 25	0.2156396 58	0.0188055 83
258	48	2	0.6705936 6	0.1599782 42	0.2513776 74	0.1803383 59
259	23	3	0.3992802 3	0.0503044 55	0.5674794 88	0.0258517 11
260	12	2	0.3733334	0.0127315 4	0.5926662 68	0.0083803 62
261	37	2	0.0754679 9	0.0363239 21	0.9154257 53	0.0385961 66
262	13	3	0.0100708 8	0.0052394 52	0.9886389 34	0.0080802 64
263	17	2	0.0370060 8	0.0428655 98	0.9572550 39	0.0390471 57
264	23	3	0.001344	0.0064455 77	0.9978496 07	0.0103129 23
265	42	2	0.4505032	0.0182966 39	0.5073207 86	0.0198626 65
266	30	2	0.0991026 8	0.0847676 03	0.8436123 92	0.1304232 06
267	19	3	0.8323677	0.1284809 69	0.0471061 57	0.0850292 76
268	28	3	0.0226826 8	0.0098257 77	0.8392710 78	0.0659903 94
269	26	2	0.0464045 2	0.0123906 24	0.9449230 06	0.0149437 32
270	12	2	0.6095175 6	0.0506272	0.2098203 96	0.0503184 34
271	33	4	0.2741239	0.2027313 18	0.6888720 3	0.2440878 05

272	17	1	0.0387858 4	0	0.9527824 62	0
273	11	2	0.8334296 6	0.0729179 15	0.0747457 32	0.0351399 17
274	29	2	0.1371946 7	0.0481994 04	0.8499814 32	0.0408521 83
275	91	2	0.1458223 3	0.0194390 77	0.8504130 7	0.0201380 14
276	18	3	0.6434048 9	0.0349889 55	0.1636962 77	0.0247597 99
277	19	3	0.7540051 8	0.0506594 48	0.1567970 01	0.0341813 43
278	18	1	0.6814932 5	0	0.1632247 82	0
279	18	2	0.6437939	0.0672589 05	0.1720848 24	0.0577796 46
280	20	3	0.7904596 7	0.0244997	0.0536890 86	0.0119794 61
281	15	2	0.4784274 5	0.0924945 56	0.4812490 4	0.0839798 78
282	34	2	0.1629036 1	0.0739975 17	0.8370963 9	0.0739975 17
283	15	1	0.0206379	0	0.9793621 01	0
284	15	2	0.0585128 4	0.0198866 22	0.9033434 59	0.0219657 36
285	23	3	0.6383716 8	0.0602301 54	0.3046083 13	0.0863710 26
286	12	1	0.0455259	0	0.9167974 88	0
287	16	1	0.1037246 1	0.0186289 63	0.8794428 38	0.0444144 71
288	14	2	0.9884618 8	0.0431716 78	0	0
289	38	2	0.4404391 6	0.0653573 1	0.2900951 49	0.0485424 85
290	15	1	0.0898648 7	0	0.8425675 68	0
291	11	2	0.8411775 6	0.0160863 45	0.1134341 37	0.0320154 53
292	12	1	0.0088446 7	0	0.9911553 34	0

293	20	2	0.8328776 7	0.0172016 66	0.0088791 36	0.0273294 03
294	25	2	0.0340769 1	0.0160825 12	0.9524211 53	0.0153456 46
295	18	1	0.3660933 7	0	0.5380835 38	0
296	23	2	0.7420313 8	0.0894708 32	0.1550472 06	0.0866200 6
297	17	2	0.0183220 8	0.0139482 14	0.9807135 97	0.0146823 3
298	13	2	0.0179028 1	0.0201268 46	0.9585885 77	0.0406023 4
299	31	1	0.8384663 7	0	0	0
300	14	2	0.1284284 4	0.0076703 35	0.8215548 34	0.0220661 39
301	15	2	0.0896161 9	0.0299956 53	0.8784478 86	0.0404378 32
302	11	1	0.0755903 2	0.0269341 87	0.9097525 54	0.0056758 64
303	14	1	0.8631194 2	0	0.0751421 61	0
304	19	2	0.8469681 4	0.0370583 56	0	0
305	27	2	0.9537567 6	0.0306093 75	0.0067731 01	0.0077168 09
306	15	2	0.7919908 3	0.0151208 61	0.1421626 74	0.0212656 05
307	14	2	0.0463467 8	0.0133395 22	0.9449291 17	0.0158504 91
308	12	1	0.6814932 5	0	0.1632247 82	0
309	12	2	0.0778030 3	0.0272224 15	0.9018830 25	0.0208251 82
310	28	1	0.6271008 4	0	0.2489495 8	0
311	14	2	0.0133199 8	0.0251979 63	0.9748652 38	0.0465697 75
312	11	1	0.0430528 4	0	0.9334637 96	0
313	12	2	0.0125384 9	0.0007360 72	0.9542729 49	0.0104809 69

314	15	1	0.0476190 5	0	0.9131652 66	0
315	19	2	0.8094622 8	0.0226173 45	0.1064980 52	0.0089311 94
316	19	2	0.0594391 3	0.0117550 38	0.8758086 97	0.0274354 92
317	16	1	0.0211132 4	0	0.8982725 53	0
318	18	1	0.0175310 5	0	0.9780861 94	0
319	17	1	0.1642458 1	0	0.8357541 9	0
320	22	1	0.2901734 1	0	0.6502890 17	0
321	14	1	0.1919917	0.0025215 11	0.7800319 82	0.0619369 61
322	23	1	0.1909997 4	0	0.8043978 52	0
323	11	2	0.4910672	0.0755672 26	0.2198152 51	0.0053029 21
324	14	2	0.5466482 2	0.0932012 62	0.1267470 55	0.0332491 74
325	18	1	0.5631755 5	0	0.2262392 84	0
326	22	1	0.0387858 4	0	0.9527824 62	0
327	21	1	0.0320567 4	0	0.9398581 56	0
328	12	1	0.0332810 6	0.0058200 24	0.9565812 8	0.0062294 88
329	14	2	0.7494867 4	0.0068697 15	0.0802401 75	0.0115735 4
330	33	1	0.3700221 2	0	0.5586283 19	0
331	14	1	0.0387858 4	0	0.9527824 62	0
332	12	2	0.0349178 4	0.0308231 94	0.9507042 25	0.0435150 97
333	11	2	0.2067169 8	0.1048846 3	0.7324233 29	0.1116218 67
334	17	1	0.134273	0	0.8486646 88	0

335	16	2	0.0167677 7	0.0026127 18	0.9680701 18	0.0238699 31
336	27	1	0.0516563 7	0	0.9416058 39	0
337	11	1	0.1304784 2	0	0.8156574 11	0
338	16	1	0.0331196 6	0	0.9052706 55	0
339	16	1	0.0875356 8	0	0.8763082 78	0
340	26	1	0.4205128 2	0	0.4479853 48	0
341	27	2	0.5580561 2	0.0404331 57	0.1359100 75	0.0513046 83
342	13	1	0.6356852 1	0	0.1716417 91	0
343	11	1	0.1889640 8	0	0.7183758 46	0
344	18	3	0.7801777 7	0.0532223 7	0.1214034 63	0.0750279 63
345	24	1	0.8466494 9	0	0.0652920 96	0
346	14	1	0.8466494 9	0	0.0652920 96	0
347	12	1	0.4436060 3	0.0821024 02	0.3379717 04	0.0004532 05
348	12	2	0.4119500 2	0.0097105 49	0.0245169 92	0.0127737 03
349	15	1	0.0353016 7	0	0.9492939 67	0
350	12	1	0.9419172 9	0.0056765 8	0.0335738 74	0.0042721 91
351	12	1	0.4682828 3	0	0.2214141 41	0
352	12	1	0.0735768	0	0.9060150 38	0
353	20	2	0.0203086 8	0.0073090 23	0.8168666 48	0.0628679 42
354	14	1	0.5648148 2	0	0.2129629 63	0
355	14	1	0.5712596 1	0	0.3273211 12	0

356	14	1	0.0746910 3	0	0.8635142 4	0
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Table 2.2 - Poverty

id	Number of Intersections in Urban Pasture	Census Blocks Covered	% Population for Whom Poverty Status Is Determined: Under 1.00 (Doing Poorly)	Standard Deviation	% Population for Whom Poverty Status Is Determined: 1.00 to 1.99 (Struggling)	Standard Deviation	% Population for Whom Poverty Status Is Determined: 2.00 and Over (Doing Ok)'	Standard Deviation
0	11	1	6.76	0	26.9	0	66.4	0
1	694	6	24.3	0.15	37	0.14	38.8	0.13
2	16	1	9.21	0	36.2	0	54.6	0
3	19	2	8.89	0.01	34.6	0.03	56.5	0.04
4	183	3	15.6	0.06	32.6	0.1	51.8	0.11
5	26	1	31.8	0	35.7	0	32.5	0
6	28	1	42.3	0	2.02	0	55.7	0
7	11	2	39	0.11	4.28	0.07	56.7	0.03
8	83	1	9.21	0	36.2	0	54.6	0
9	13	1	20.9	0.02	48.6	0.09	30.5	0.07
10	230	2	4.28	0.02	15.5	0.09	80.2	0.11
11	15	2	8.73	0.01	19.8	0.02	71.4	0.01
12	83	3	9.78	0.03	18.9	0.01	71.3	0.02
13	29	2	11.1	0.11	20.4	0.06	68.5	0.05
14	21	1	6.76	0	26.9	0	66.4	0
15	48	3	7.53	0.05	26.8	0.05	65.7	0.04
16	48	2	11.3	0.03	26.1	0.03	62.6	0.05
17	15	1	7.61	0.01	24.3	0.04	68.1	0.03
18	51	2	11.3	0.06	17.8	0.12	70.9	0.06

19	25	2	18.6	0.04	30.8	0.07	50.7	0.03
20	346	5	23.6	0.21	19.8	0.12	56.6	0.23
21	14	2	21.8	0.04	22.6	0.07	55.6	0.03
22	30	2	3.9	0.03	24	0.02	72.1	0
23	14	2	8.69	0.01	19.9	0.02	71.4	0.01
24	111	3	6.7	0.01	4.68	0.03	88.6	0.02
25	20	1	4.75	0	13.5	0	81.7	0
26	14	2	2.52	0.01	6.37	0	91.1	0.01
27	161	1	4.66	0	6.63	0	88.7	0
28	14	1	2.29	0.02	10.5	0.02	87.2	0.04
29	21	2	2.74	0.01	7.48	0	89.8	0.01
30	133	3	3.93	0.02	5.7	0.08	90.4	0.1
31	28	1	11.3	0	22.9	0	65.9	0
32	17	1	7.07	0	19.9	0	73	0
33	16	2	6.61	0.01	18.6	0.04	74.8	0.05
34	165	3	5.01	0.03	11.4	0.07	83.6	0.1
35	13	1	7.07	0	19.9	0	73	0
36	18	2	5.59	0.01	10.3	0.04	84.1	0.03
37	12	2	5.7	0.01	9.84	0.04	84.5	0.03
38	29	1	6.24	0	14.9	0	78.8	0
39	15	2	4.96	0.03	7.5	0	87.5	0.03
40	12	1	14.7	0	26.4	0	58.9	0
41	22	1	23	0	31.7	0	45.3	0
42	115	3	9.07	0.03	4.03	0.01	86.9	0.02
43	16	1	2.19	0	6.35	0	91.5	0
44	13	1	9.43	0	7.86	0	82.7	0
45	13	2	13.6	0.08	16.8	0.12	69.5	0.2
46	16	1	9.43	0	7.86	0	82.7	0
47	13	1	2.19	0	6.35	0	91.5	0
48	19	1	2.87	0	3.62	0.01	93.5	0.01
49	28	2	5.28	0.02	13.8	0.01	80.9	0.03
50	29	1	2.19	0	6.35	0	91.5	0
51	18	1	14.4	0.01	25.4	0.03	60.2	0.04
52	21	3	12.1	0.04	18.1	0.02	69.8	0.06
53	17	2	4.28	0.01	11.2	0.02	84.5	0.04
54	19	1	22.3	0.03	30.4	0.05	47.3	0.09
55	15	1	2.87	0	3.76	0	93.4	0
56	135	2	10.9	0.09	10.8	0.01	78.3	0.1
57	204	4	4.22	0.04	5.77	0.02	90	0.05

58	870	4	11	0.11	13.8	0.08	75.2	0.16
59	178	4	19.4	0.06	26.7	0.09	53.9	0.1
60	59	3	17.9	0.11	9.12	0.03	73	0.12
61	13	1	19.9	0	4.65	0	75.4	0
62	18	1	9.87	0	15.9	0	74.2	0
63	137	3	19.1	0.04	19	0.04	61.9	0.08
64	50	2	3.72	0	8.74	0.04	87.5	0.04
65	797	5	7.6	0.07	6.26	0.07	86.1	0.13
66	18	1	1.4	0	21.8	0	76.8	0
67	15	3	2.03	0.01	2	0.02	96	0.03
68	64	3	7.55	0.16	2.44	0.05	90	0.21
69	120	4	11.3	0.16	5.34	0.05	83.4	0.2
70	112	2	22.5	0.03	23.8	0.05	53.7	0.08
71	314	4	6.38	0.05	8.18	0.06	85.4	0.09
72	13	1	6.46	0	12.5	0	81	0
73	76	4	10.2	0.01	24.2	0.1	65.6	0.09
74	12	1	19.2	0	10.6	0	70.2	0
75	38	2	7.73	0.06	12.9	0.04	79.4	0.08
76	935	4	11	0.08	8.62	0.06	80.3	0.11
77	27	3	25.6	0.15	20.7	0.16	53.7	0.3
78	96	3	20.8	0.11	23.4	0.14	55.8	0.18
79	254	3	11.3	0.09	11.3	0.1	77.4	0.17
80	14	2	4.55	0.03	8.02	0.02	87.4	0.01
81	20	1	2.15	0	5.42	0	92.4	0
82	18	2	39.7	0.06	47.2	0.01	13.1	0.06
83	17	2	33	0.08	25.3	0.01	41.8	0.09
84	352	5	5.82	0.05	5.03	0.07	89.2	0.1
85	168	3	22.7	0.05	25.6	0.08	51.7	0.06
86	45	1	24.1	0	31.9	0	44	0
87	119	3	11.5	0.04	10.8	0.03	77.6	0.05
88	14	2	17.4	0.04	22.4	0.03	60.2	0.01
89	25	2	26.2	0.04	26.7	0.01	47.1	0.05
90	63	4	10.7	0.08	8.56	0.03	80.8	0.05
91	16	2	15.6	0.02	13.6	0.07	70.9	0.09
92	13	1	16.9	0	27	0	56	0
93	62	2	11.9	0.02	26	0	62	0.01
94	19	1	16.1	0.04	26.8	0.01	57.1	0.05
95	95	4	13.7	0.1	26	0.11	60.3	0.13
96	78	3	15	0.02	11.8	0.01	73.2	0.02

97	11	1	10.9	0.03	0.18	0.01	88.9	0.02
98	13	3	30.9	0.09	29.1	0.04	40.1	0.07
99	18	2	15.5	0.02	13.4	0.06	71.1	0.08
100	28	3	5.53	0.06	6.92	0.04	87.5	0.1
101	14	2	19.4	0.11	35.1	0.08	45.5	0.09
102	50	2	5.55	0.07	3.85	0.05	90.6	0.11
103	11	2	6.03	0.05	4.76	0.03	89.2	0.07
104	13	1	24.4	0	34.7	0	40.9	0
105	158	4	2.55	0.03	5.26	0.04	92.2	0.06
106	75	3	7.29	0.02	12	0.08	80.7	0.1
107	52	3	6.99	0.05	1.7	0.01	91.3	0.05
108	14	2	16.9	0.01	15.5	0	67.7	0.01
109	16	2	5.66	0.01	3.38	0.01	91	0.02
110	20	1	50.7	0.04	17	0.03	32.2	0.01
111	12	2	19.8	0.02	11.3	0.02	68.9	0.04
112	37	3	8.83	0.05	11.3	0.07	79.9	0.1
113	14	1	23.8	0.01	32.2	0.01	44	0
114	24	1	9.22	0	10.7	0	80.1	0
115	19	1	17.6	0	24.8	0	57.5	0
116	25	2	20.4	0.06	20.4	0.04	59.2	0.02
117	33	2	18.5	0.01	16.5	0.03	65	0.04
118	15	3	41.4	0.04	46.8	0.01	11.8	0.03
119	18	3	24.1	0.06	28.2	0.04	47.6	0.1
120	26	2	22.1	0.01	37.6	0.05	40.3	0.07
121	11	2	4.59	0.01	2.39	0.06	93	0.06
122	12	2	17	0.07	6.38	0.09	76.7	0.16
123	11	2	20.1	0.14	33.1	0.23	46.8	0.37
124	11	2	11.5	0.02	16.2	0.05	72.2	0.07
125	19	2	8.37	0.03	12.3	0.03	79.3	0.06
126	21	1	30.5	0	32.3	0	37.2	0
127	21	3	11.4	0.02	6.29	0.05	82.3	0.06
128	12	1	15.3	0	27.4	0	57.3	0
129	11	1	16.9	0	27	0	56	0
130	14	2	18.6	0	14.7	0.04	66.7	0.03
131	11	1	17.6	0	24.8	0	57.5	0
132	52	2	9.72	0.03	23.3	0.08	67	0.07
133	19	3	15.1	0.1	15.9	0.14	69	0.24
134	15	2	18	0.04	22.6	0.14	59.4	0.17
135	17	2	18.3	0.01	15.9	0.02	65.8	0.03

136	25	2	6.04	0.01	15.6	0.07	78.4	0.08
137	16	2	11.7	0.03	16.4	0.06	71.9	0.08
138	20	2	36.9	0.1	29.8	0.05	33.2	0.16
139	24	1	9.75	0	3.72	0	86.5	0
140	22	2	3.77	0	1.39	0	94.8	0
141	12	1	4.48	0	37.9	0	57.6	0
142	15	2	26	0.13	8.29	0.04	65.7	0.17
143	44	3	15.2	0.04	15.1	0.02	69.7	0.04
144	19	3	19	0.08	15.6	0.04	65.4	0.11
145	18	2	31.2	0.14	20.1	0	48.8	0.14
146	28	2	9.5	0.04	2.62	0.01	87.9	0.04
147	28	3	6.71	0.07	3.81	0.02	89.5	0.09
148	16	2	23.5	0.05	35	0.06	41.6	0.02
149	33	2	15.6	0.09	40.7	0.1	43.8	0.01
150	12	3	3.11	0.02	20.7	0.18	76.2	0.2
151	12	1	11.8	0	0	0	88.2	0
152	43	2	1.63	0.01	8.91	0.03	89.5	0.02
153	13	1	15.2	0.02	20.6	0.01	64.3	0.03
154	17	2	15.6	0.04	6.55	0.02	77.9	0.06
155	11	1	30.5	0	49.4	0	20.1	0
156	15	2	13.1	0.03	11.5	0.08	75.4	0.11
157	11	1	3.35	0	13.6	0	83.1	0
158	18	2	14.7	0.03	10.3	0.02	75	0.05
159	12	1	16.1	0	6.43	0	77.5	0
160	11	2	0.42	0.01	5.32	0.01	94.3	0
161	20	3	18	0.02	17	0.09	65	0.08
162	24	2	14.6	0.22	8.8	0.05	76.6	0.27
163	18	1	0	0	5.14	0	94.9	0
164	42	1	49.2	0.07	9.9	0.01	40.9	0.08
165	13	1	28.5	0.08	14.7	0.05	56.8	0.03
166	29	1	3.78	0	9.6	0.03	86.6	0.03
167	11	1	1.18	0	10.2	0	88.6	0
168	23	1	8.08	0	13.8	0	78.2	0
169	14	1	24.1	0	31.9	0	44	0
170	14	1	24.4	0	34.7	0	40.9	0
171	12	2	3.23	0.04	5.96	0.02	90.8	0.06
172	22	1	13.2	0.01	6.71	0.01	80.1	0.02
173	11	1	3.47	0	2.27	0	94.3	0
174	14	1	1.41	0.01	9.68	0.02	88.9	0.01

175	102	5	15.3	0.07	33.1	0.11	51.6	0.11
176	31	1	15.7	0.09	3.95	0.02	80.3	0.07
177	27	1	44.9	0.08	18.1	0.07	37	0.15
178	52	2	1.41	0.02	2.24	0.02	96.4	0.03
179	383	3	32.6	0.1	29.1	0.13	38.3	0.14
180	372	4	28.8	0.08	26.9	0.06	44.3	0.08
181	170	3	10.3	0.12	6.13	0.04	83.5	0.15
182	44	2	3.13	0	2.4	0.01	94.5	0.01
183	95	2	30.4	0.1	33	0.12	36.7	0.08
184	203	6	27.7	0.15	17.2	0.12	55.1	0.2
185	27	4	28.4	0.2	40	0.1	31.6	0.1
186	554	4	5.01	0.04	5.4	0.05	89.6	0.06
187	23	1	16.3	0	46.5	0	37.1	0
188	80	3	21.5	0.08	29.1	0.07	49.4	0.13
189	19	1	27.9	0	36.4	0	35.7	0
190	13	1	15.5	0	35.9	0	48.5	0
191	160	3	5.86	0.05	15.6	0.08	78.6	0.1
192	37	2	5.3	0.02	6.27	0.03	88.4	0.06
193	17	1	36.5	0	12.7	0	50.8	0
194	46	3	33.7	0.11	13.9	0	52.4	0.11
195	16	1	7.8	0	12.5	0	79.7	0
196	50	4	37.1	0.14	26	0.05	36.9	0.15
197	25	1	22.7	0	45.4	0	31.9	0
198	16	2	74.7	0.16	7.96	0	17.3	0.16
199	17	1	41.3	0.01	18.3	0.07	40.4	0.06
200	12	1	13.9	0	19.5	0	66.6	0
201	101	3	35.7	0.08	24.3	0.04	39.9	0.09
202	73	2	31.4	0.02	7.12	0.01	61.5	0.03
203	22	3	1.45	0.01	1.15	0.04	97.4	0.05
204	188	3	12.1	0.16	8.68	0.05	79.2	0.17
205	46	2	30.8	0.06	23.5	0.01	45.7	0.07
206	39	2	33.4	0.05	24.1	0.03	42.5	0.05
207	171	4	11.4	0.06	7.19	0.04	81.4	0.07
208	26	1	36.5	0	12.7	0	50.8	0
209	45	2	38.8	0.01	17.2	0.02	44	0.03
210	11	2	34.4	0.07	26.9	0.02	38.7	0.09
211	697	6	25.7	0.16	21	0.13	53.2	0.19
212	421	4	29.9	0.15	31.4	0.12	38.7	0.14
213	29	2	14.7	0.06	24.5	0.05	60.9	0.07

214	40	1	20.3	0.15	9.83	0.02	69.8	0.17
215	76	1	51.3	0.03	26.6	0	22.1	0.03
216	11	1	5.33	0	4.1	0	90.6	0
217	204	4	30.4	0.23	15.1	0.08	54.5	0.23
218	309	4	31.1	0.12	28.6	0.13	40.3	0.15
219	39	2	14.5	0	5.76	0	79.8	0
220	67	2	17	0.02	12.8	0.03	70.2	0.05
221	59	3	21.4	0.08	28.1	0.05	50.5	0.13
222	12	1	7.23	0.04	26.5	0.04	66.2	0
223	224	3	23.7	0.16	14.8	0.09	61.5	0.22
224	28	2	4.58	0.02	5.64	0.05	89.8	0.07
225	14	1	6.39	0	8.85	0	84.8	0
226	24	3	2.23	0.03	6.33	0.03	91.4	0.05
227	21	1	39.7	0	26.9	0	33.4	0
228	35	2	33.7	0.03	25.2	0.23	41.1	0.21
229	153	4	32.7	0.14	24.7	0.09	42.6	0.13
230	12	1	13.9	0	19.5	0	66.6	0
231	100	4	25.2	0.06	24.9	0.04	49.9	0.09
232	12	1	10	0	23.6	0.03	66.3	0.03
233	19	2	27.7	0.1	24.4	0.02	47.8	0.08
234	34	1	20.8	0	21.4	0	57.8	0
235	14	2	6.92	0.02	3.65	0.01	89.4	0.02
236	23	3	21.9	0.06	35.7	0.08	42.4	0.11
237	64	1	39.2	0.08	14.5	0.05	46.2	0.1
238	39	2	3.93	0.04	3.9	0.02	92.2	0.05
239	156	2	43.7	0.04	27.1	0.07	29.2	0.03
240	34	3	3.66	0.01	0.99	0.02	95.4	0.03
241	58	4	2.5	0.01	2.19	0.01	95.3	0.01
242	60	3	8.81	0.02	6.46	0.02	84.7	0.04
243	14	1	51.2	0.02	17.2	0.03	31.7	0.02
244	28	3	2.99	0.01	2.36	0.01	94.7	0.01
245	14	2	17.4	0.06	17.5	0.12	65.1	0.16
246	11	2	24.3	0.11	8.29	0.05	67.5	0.09
247	94	2	25.5	0.08	1.25	0.01	73.3	0.07
248	18	2	0.48	0.01	4.42	0.01	95.1	0.01
249	32	2	36	0.06	10.6	0.08	53.5	0.08
250	12	1	89.8	0	5.85	0	4.35	0
251	38	2	19.5	0.15	39.6	0.05	40.8	0.1
252	41	2	10.9	0.12	43.8	0.03	45.3	0.1

253	18	2	9.54	0.09	11.4	0.03	79.1	0.08
254	55	1	9.64	0	5.41	0	85	0
255	18	1	30.5	0.03	27.3	0.01	42.3	0.04
256	32	3	18	0.09	11.4	0.09	70.6	0.07
257	38	2	4.11	0.03	7.49	0.01	88.4	0.02
258	48	2	4.02	0.06	9.31	0.05	86.7	0.11
259	23	3	30.9	0.06	10.2	0.06	58.9	0.09
260	12	2	30.1	0.01	25.5	0.05	44.4	0.04
261	37	2	6.97	0.02	17.9	0.09	75.1	0.08
262	13	3	13.4	0.08	9.51	0.13	77.1	0.21
263	17	2	10.8	0.04	49.8	0	39.4	0.04
264	23	3	42.7	0.15	14.4	0.08	43	0.2
265	42	2	12.9	0.04	5.41	0.05	81.7	0.09
266	30	2	37.2	0.09	29.8	0.05	33.1	0.1
267	19	3	6.87	0.01	5.33	0.04	87.8	0.05
268	28	3	55.2	0.12	26.8	0.05	17.9	0.08
269	26	2	22.5	0.06	40.4	0.01	37.1	0.04
270	12	2	9.68	0	8.34	0.01	82	0.01
271	33	4	22.9	0.1	32.7	0.09	44.4	0.18
272	17	1	39.1	0	27.9	0	33	0
273	11	2	5.01	0.04	8.5	0.03	86.5	0.07
274	29	2	45.9	0.14	22.3	0.06	31.9	0.08
275	91	2	11.5	0.07	18.7	0.01	69.8	0.08
276	18	3	9.03	0.03	8.69	0.01	82.3	0.03
277	19	3	16.8	0.07	6.52	0.03	76.7	0.04
278	18	1	4.37	0	12.7	0	83	0
279	18	2	7.61	0.01	6.35	0.03	86	0.03
280	20	3	8.06	0.02	5.95	0.04	86	0.05
281	15	2	12.2	0.01	5.01	0.03	82.8	0.03
282	34	2	24.8	0.02	40.6	0.1	34.5	0.07
283	15	1	22.3	0	33.8	0	43.9	0
284	15	2	28	0.15	31.7	0.07	40.3	0.21
285	23	3	10.8	0.08	7.88	0.08	81.3	0.11
286	12	1	37.9	0	36.3	0	25.8	0
287	16	1	44.7	0.01	22.3	0.05	33	0.04
288	14	2	2.95	0	0	0	97	0
289	38	2	14.8	0.04	11.6	0.03	73.7	0.06
290	15	1	7.16	0	19.1	0	73.8	0
291	11	2	5.89	0.01	3.61	0.01	90.5	0.02

292	12	1	75	0	21.8	0	3.23	0
293	20	2	3.81	0	0.3	0.01	95.9	0.01
294	25	2	37.5	0.05	32.2	0.06	30.3	0.08
295	18	1	33.5	0	23.4	0	43.2	0
296	23	2	7.84	0.03	2.6	0	89.6	0.03
297	17	2	20.3	0.03	29.4	0.22	50.3	0.26
298	13	2	11.5	0.13	43.6	0.03	44.9	0.1
299	31	1	3.9	0	0	0	96.1	0
300	14	2	41.3	0.09	29	0.02	29.7	0.11
301	15	2	27.4	0.03	32.3	0.02	40.3	0.05
302	11	1	41.9	0.08	11.4	0.09	46.7	0.01
303	14	1	3.53	0	0.97	0	95.5	0
304	19	2	3.85	0	0	0	96.2	0
305	27	2	2.06	0.01	0	0	97.9	0.01
306	15	2	4.23	0.02	5.41	0.04	90.4	0.06
307	14	2	20.3	0.02	39.4	0.05	40.2	0.07
308	12	1	4.37	0	12.7	0	83	0
309	12	2	31	0.04	36.2	0.05	32.8	0.01
310	28	1	9.64	0	5.41	0	85	0
311	14	2	9.13	0.04	4.32	0.11	86.5	0.07
312	11	1	7.24	0	27.6	0	65.2	0
313	12	2	22.2	0.03	29.5	0.01	48.3	0.04
314	15	1	22.4	0	33.6	0	44	0
315	19	2	2.05	0	0.39	0.02	97.6	0.01
316	19	2	45.6	0.05	32.5	0.04	21.9	0.08
317	16	1	25.9	0	29.8	0	44.3	0
318	18	1	29.2	0	23.3	0	47.5	0
319	17	1	43.4	0	21.7	0	34.9	0
320	22	1	25	0	12.7	0	62.3	0
321	14	1	8.95	0.01	20.2	0.03	70.8	0.02
322	23	1	9.31	0	19.1	0	71.6	0
323	11	2	30.6	0.08	35.1	0.11	34.3	0.18
324	14	2	14.3	0	30.5	0.09	55.2	0.09
325	18	1	13.5	0	7	0	79.5	0
326	22	1	39.1	0	27.9	0	33	0
327	21	1	2.67	0	25.1	0	72.2	0
328	12	1	20.3	0.01	36	0.01	43.7	0
329	14	2	10.7	0.01	19.9	0.02	69.4	0.03
330	33	1	11.1	0	18.8	0	70.1	0

331	14	1	39.1	0	27.9	0	33	0
332	12	2	20.9	0.07	31.2	0.08	47.9	0.15
333	11	2	9.73	0.01	32.3	0.09	57.9	0.08
334	17	1	20.9	0	22.3	0	56.8	0
335	16	2	52.9	0.03	26.6	0	20.5	0.03
336	27	1	13.9	0	19.5	0	66.6	0
337	11	1	43.6	0	29.6	0	26.8	0
338	16	1	15.5	0	35.9	0	48.5	0
339	16	1	23.1	0	38.3	0	38.5	0
340	26	1	7.07	0	19.9	0	73	0
341	27	2	19.5	0.01	30	0.02	50.4	0.03
342	13	1	6.24	0	14.9	0	78.8	0
343	11	1	9.21	0	36.2	0	54.6	0
344	18	3	3.32	0.02	1.94	0.04	94.7	0.07
345	24	1	12.4	0	19.6	0	68	0
346	14	1	12.4	0	19.6	0	68	0
347	12	1	14.1	0.09	29.1	0.17	56.7	0.08
348	12	2	42.8	0.01	46.5	0	10.7	0.01
349	15	1	40	0	34	0	26	0
350	12	1	4.07	0.01	3.01	0.02	92.9	0.01
351	12	1	32.9	0	38.3	0	28.8	0
352	12	1	24.4	0	34.7	0	40.9	0
353	20	2	19.7	0.08	18.4	0.06	61.9	0.13
354	14	1	16.4	0	23.1	0	60.5	0
355	14	1	2.19	0	6.35	0	91.5	0
356	14	1	41	0	23.5	0	35.5	0

Table 2.3.1 - Education

id	Number of Intersections in Urban Pasture	Census Blocks Covered	% Population 25 Years and Over: Less than High School	Standard Deviation	% Population 25 Years and Over: High School Graduate (Includes Equivalence)'	Standard Deviation	% Population 25 Years and Over: Some College'	Standard Deviation
0	11	1	0.22	0	0.265282 584	0	0	0
1	694	6	0.3	0.08	0.369241 777	0.08	0	0.095
2	16	1	0.18	0	0.413849 959	0	0	0
3	19	2	0.19	0.02	0.395994 589	0.04	0	0.025
4	183	3	0.12	0.06	0.373646 434	0.07	0	0.072
5	26	1	0.28	0	0.208955 224	0	0	0
6	28	1	0.31	0	0.055749 129	0	1	0
7	11	2	0.3	0.03	0.074797 625	0.06	1	0.079
8	83	1	0.18	0	0.413849 959	0	0	0
9	13	1	0.13	0.02	0.386662 351	0	0	0.012
10	230	2	0.09	0.1	0.242683 376	0.04	0	0.021
11	15	2	0.15	0.02	0.291795 835	0.03	0	0.029
12	83	3	0.14	0.03	0.321424 346	0.05	0	0.054

13	29	2	0.12	0.1	0.328327 634	0.01	0	0.008
14	21	1	0.22	0	0.265282 584	0	0	0
15	48	3	0.23	0.01	0.263276 519	0.03	0	0.039
16	48	2	0.18	0.06	0.363455 724	0.04	0	0.052
17	15	1	0.19	0.05	0.305285 645	0.06	0	0.049
18	51	2	0.21	0.03	0.277743 314	0.02	0	0.033
19	25	2	0.3	0.03	0.237217 865	0.05	0	0.038
20	346	5	0.16	0.12	0.213799 295	0.15	0	0.125
21	14	2	0.35	0.03	0.373818 801	0	0	0.033
22	30	2	0.06	0.05	0.325132 502	0.02	0	0.019
23	14	2	0.15	0.02	0.285117 555	0.01	0	0.004
24	111	3	0.01	0.01	0.062738 966	0.02	0	0.016
25	20	1	0.02	0	0.051491 819	0	0	0
26	14	2	0	0	0.064304 94	0.03	0	0.002
27	161	1	0.06	0	0.141994 633	0	0	0
28	14	1	0.02	0.01	0.079573 258	0.02	0	0.006
29	21	2	0.02	0	0.135804 076	0.02	0	5E-04
30	133	3	0.01	0	0.056190 703	0.02	0	0.082
31	28	1	0.22	0	0.125072 38	0	0	0
32	17	1	0.01	0	0.102809 325	0	0	0
33	16	2	0.01	0	0.094334 353	0.02	0	0.053

34	165	3	0.03	0.04	0.082134 903	0.05	0	0.071
35	13	1	0.01	0	0.102809 325	0	0	0
36	18	2	0.02	0.01	0.096829 213	0.02	0	0.011
37	12	2	0.02	0.01	0.094181 004	0.02	0	0.012
38	29	1	0	0	0.121444 201	0	0	0
39	15	2	0.02	0	0.098349 829	0.05	0	0.001
40	12	1	0	0	0.2	0	0	0
41	22	1	0.16	0	0.298695 457	0	0	0
42	115	3	0.02	0.02	0.090785 118	0.03	0	0.034
43	16	1	0	0	0.056175 729	0	0	0
44	13	1	0	0	0	0	0	0
45	13	2	0.08	0.07	0.146071 044	0.13	0	0.025
46	16	1	0	0	0	0	0	0
47	13	1	0	0	0.056175 729	0	0	0
48	19	1	0	0	0.064767 254	0	0	0.04
49	28	2	0.03	0.04	0.059312 09	0.03	0	0.047
50	29	1	0	0	0.056175 729	0	0	0
51	18	1	0.02	0.05	0.195663 957	0.01	0	0.05
52	21	3	0.06	0.03	0.234496 19	0.09	0	0.042
53	17	2	0.03	0	0.118890 841	0.01	0	0.083
54	19	1	0.15	0.04	0.282974 643	0.07	0	0.038
55	15	1	0	0	0.065688 776	0	0	0
56	135	2	0	0.01	0.070463 373	0.01	0	0.019

57	204	4	0.02	0.01	0.050059 796	0.06	0	0.028
58	870	4	0.08	0.06	0.172776 705	0.11	0	0.078
59	178	4	0.15	0.04	0.357997 261	0.07	0	0.06
60	59	3	0.03	0.01	0.054633 234	0.05	0	0.038
61	13	1	0	0	0.070634 921	0	0	0
62	18	1	0.07	0	0.163035 84	0	0	0
63	137	3	0.1	0.05	0.214332 493	0.06	0	0.053
64	50	2	0.02	0.01	0.082494 493	0.03	0	0.024
65	797	5	0.05	0.06	0.087242 945	0.06	0	0.062
66	18	1	0.05	0	0.150148 368	0	0	0
67	15	3	0	0	0.024885 015	0	0	0.017
68	64	3	0.03	0.06	0.072220 073	0.1	0	0.02
69	120	4	0.03	0.06	0.082595 603	0.1	0	0.039
70	112	2	0.08	0.02	0.220547 479	0.08	0	0.043
71	314	4	0.05	0.08	0.073414 627	0.06	0	0.038
72	13	1	0.07	0	0.159887 798	0	0	0
73	76	4	0.13	0.07	0.203172 823	0.03	0	0.025
74	12	1	0.01	0	0.159120 31	0	0	0
75	38	2	0.02	0.03	0.113628 424	0.04	0	0.06
76	935	4	0.06	0.05	0.130406 157	0.1	0	0.054
77	27	3	0.32	0.3	0.158271 169	0.04	0	0.052

78	96	3	0.36	0.24	0.162591 461	0.07	0	0.062
79	254	3	0.13	0.16	0.077847 974	0.06	0	0.033
80	14	2	0.01	0	0.044977 001	0.04	0	0.054
81	20	1	0.01	0	0.179734 62	0	0	0
82	18	2	0.61	0.07	0.273508 861	0.02	0	0.033
83	17	2	0.13	0.02	0.357787 328	0.05	0	0.05
84	352	5	0.03	0.06	0.064445 672	0.06	0	0.046
85	168	3	0.28	0.06	0.239926 638	0.03	0	0.051
86	45	1	0.18	0	0.338197 97	0	0	0
87	119	3	0.04	0.03	0.095383 619	0.04	0	0.032
88	14	2	0.07	0.03	0.137887 488	0.08	0	0.059
89	25	2	0.04	0.01	0.214878 138	0.04	0	0.014
90	63	4	0.01	0.01	0.089322 181	0.02	0	0.008
91	16	2	0.09	0.01	0.244842 599	0.04	0	0.036
92	13	1	0.16	0	0.459112 15	0	0	0
93	62	2	0.14	0.01	0.403734 084	0	0	0.015
94	19	1	0.16	0.03	0.442850 898	0.07	0	0.041
95	95	4	0.17	0.06	0.363659 136	0.03	0	0.05
96	78	3	0.09	0.01	0.234840 202	0.01	0	0.009
97	11	1	0	0	0.065663 81	0.01	0	0.008
98	13	3	0.15	0.03	0.414807 61	0.05	0	0.068

99	18	2	0.09	0.01	0.243724 419	0.04	0	0.034
100	28	3	0.02	0.02	0.026224 893	0.01	0	0.041
101	14	2	0.13	0.02	0.429323 74	0.03	0	0.016
102	50	2	0.05	0.03	0.075217 143	0.09	0	0.047
103	11	2	0.15	0.18	0.175486 688	0.11	0	0.042
104	13	1	0.16	0	0.326963 907	0	0	0
105	158	4	0.02	0.02	0.111429 687	0.04	0	0.038
106	75	3	0.04	0.09	0.077116 532	0.04	0	0.059
107	52	3	0.01	0.01	0.067041 127	0.03	0	0.043
108	14	2	0.15	0.01	0.299575 513	0.01	0	0.007
109	16	2	0.01	0	0.059129 888	0.01	0	0.03
110	20	1	0.17	0	0.398324 365	0.03	0	0.004
111	12	2	0.02	0.02	0.168891 083	0.03	0	0.044
112	37	3	0.02	0.03	0.116830 477	0.02	0	0.058
113	14	1	0.17	0.03	0.332313 397	0.02	0	0.041
114	24	1	0.04	0	0.240231 548	0	0	0
115	19	1	0.09	0	0.414049 587	0	0	0
116	25	2	0.09	0.05	0.197229 939	0.13	0	0.102
117	33	2	0.15	0.04	0.269345 686	0.05	0	0.047
118	15	3	0.72	0.05	0.250299 525	0.02	0	0.023
119	18	3	0.14	0.03	0.291840 122	0.01	0	0.065

120	26	2	0.05	0.01	0.389603 853	0.03	0	0.029
121	11	2	0.02	0.02	0.068223 446	0.01	0	0.064
122	12	2	0.08	0.03	0.148142 253	0.05	0	0.011
123	11	2	0.43	0.31	0.143774 695	0.1	0	0.091
124	11	2	0.03	0.02	0.114683 697	0.06	0	0.054
125	19	2	0.09	0.01	0.226364 324	0.07	0	0.033
126	21	1	0.17	0	0.302163 833	0	0	0
127	21	3	0.02	0.01	0.073958 221	0.04	0	0.029
128	12	1	0.15	0	0.261829 653	0	0	0
129	11	1	0.16	0	0.459112 15	0	0	0
130	14	2	0.09	0.02	0.470000 209	0	0	0.003
131	11	1	0.09	0	0.414049 587	0	0	0
132	52	2	0.1	0.04	0.323847 257	0.06	0	0.091
133	19	3	0.13	0.12	0.125972 069	0.05	0	0.003
134	15	2	0.07	0.02	0.299186 129	0.08	0	0.074
135	17	2	0.16	0.03	0.280592 709	0.04	0	0.037
136	25	2	0.06	0.01	0.064055 763	0.04	0	0.044
137	16	2	0.03	0.01	0.138981 01	0.03	0	5E-04
138	20	2	0.08	0.02	0.278483 464	0.07	0	0.049
139	24	1	0.02	0	0.101178 782	0	0	0
140	22	2	0.02	0.01	0.075224 479	0.02	0	0.019

141	12	1	0.21	0	0.325704 225	0	0	0
142	15	2	0.01	0.01	0.041741 709	0	0	0.029
143	44	3	0.19	0.05	0.137877 283	0.03	0	0.04
144	19	3	0.13	0.01	0.247235 463	0.02	0	0.043
145	18	2	0.19	0.04	0.231919 778	0.03	0	0.018
146	28	2	0.01	0.01	0.070274 49	0.03	0	0.028
147	28	3	0.23	0.13	0.112282 281	0.07	0	0.017
148	16	2	0.17	0.02	0.338160 012	0.03	0	0.032
149	33	2	0.2	0.04	0.376114 976	0.02	0	0.053
150	12	3	0.25	0.09	0.189574 735	0.14	0	0.053
151	12	1	0	0	0.069943 289	0	0	0
152	43	2	0.01	0	0.079671 315	0	0	0.043
153	13	1	0.17	0.07	0.122533 29	0.01	0	0.038
154	17	2	0.07	0.01	0.179509 055	0.04	0	0.025
155	11	1	0.66	0	0.212616 822	0	0	0
156	15	2	0.1	0.08	0.120452 015	0.02	0	0.003
157	11	1	0.03	0	0.278959 811	0	0	0
158	18	2	0.12	0.03	0.188564 185	0.03	0	0.045
159	12	1	0.07	0	0.190476 19	0	0	0
160	11	2	0.02	0	0.048298 024	0	0	0.018
161	20	3	0.1	0.04	0.452926 214	0.04	0	0.011

162	24	2	0.05	0.07	0.230838 319	0.09	0	0.046
163	18	1	0.02	0	0.141544 118	0	0	0
164	42	1	0.04	0.01	0.141688 265	0.02	0	0.016
165	13	1	0.17	0.02	0.384253 423	0.06	0	0.038
166	29	1	0.03	0.01	0.104926 808	0	0	0.044
167	11	1	0.01	0	0.081205 312	0	0	0
168	23	1	0.09	0	0.030176 899	0	0	0
169	14	1	0.18	0	0.338197 97	0	0	0
170	14	1	0.16	0	0.326963 907	0	0	0
171	12	2	0.02	0.02	0.184321 65	0.02	0	0.007
172	22	1	0.03	0.01	0.061917 637	0.01	0	0.016
173	11	1	0	0	0.03125	0	0	0
174	14	1	0.01	0	0.077393 478	0.01	0	0.022
175	102	5	0.12	0.07	0.316456 823	0.08	0	0.086
176	31	1	0.05	0.03	0.095126 811	0.03	0	0.077
177	27	1	0.14	0.12	0.261970 964	0	0	0.034
178	52	2	0.06	0.09	0.029859 245	0.02	0	0.036
179	383	3	0.12	0.05	0.294205 362	0.12	0	0.055
180	372	4	0.16	0.07	0.292348 948	0.1	0	0.05
181	170	3	0.01	0.02	0.059900 914	0.01	0	0.052
182	44	2	0.01	0	0.020527 044	0	0	0.006
183	95	2	0.22	0.09	0.292874 048	0.04	0	0.035

184	203	6	0.21	0.11	0.299224 718	0.09	0	0.092
185	27	4	0.24	0.05	0.398159 023	0.04	0	0.045
186	554	4	0.01	0.03	0.048164 046	0.06	0	0.056
187	23	1	0.21	0	0.392183 288	0	0	0
188	80	3	0.18	0.09	0.337417 021	0.03	0	0.036
189	19	1	0.11	0	0.335836 91	0	0	0
190	13	1	0.08	0	0.395718 654	0	0	0
191	160	3	0.1	0.06	0.110490 514	0.06	0	0.044
192	37	2	0.01	0	0.043315 135	0.02	0	0.017
193	17	1	0.1	0	0.189376 443	0	0	0
194	46	3	0.15	0.01	0.145449 104	0.09	0	0.083
195	16	1	0.01	0	0.098249 027	0	0	0
196	50	4	0.19	0.11	0.409324 267	0.1	0	0.076
197	25	1	0.14	0	0.356182 796	0	0	0
198	16	2	0.24	0.06	0.388656 527	0.03	0	0.004
199	17	1	0.02	0	0.038193 396	0.01	0	0.06
200	12	1	0.07	0	0.344036 697	0	0	0
201	101	3	0.15	0.04	0.321895 194	0.08	0	0.035
202	73	2	0.28	0	0.201592 955	0	0	6E-04
203	22	3	0.01	0	0.057461 428	0.02	0	0.004
204	188	3	0.06	0.08	0.066718 987	0.07	0	0.046

205	46	2	0.05	0.07	0.183451 613	0	1	0.035
206	39	2	0.15	0.04	0.391604 879	0.02	0	0.021
207	171	4	0.02	0.04	0.059036 822	0.04	0	0.081
208	26	1	0.1	0	0.189376 443	0	0	0
209	45	2	0.24	0.02	0.266824 396	0.03	0	0.012
210	11	2	0.14	0.02	0.449755 944	0.04	0	0.006
211	697	6	0.1	0.07	0.350090 586	0.13	0	0.091
212	421	4	0.18	0.1	0.363848 226	0.09	0	0.063
213	29	2	0.15	0.04	0.415906 077	0.18	0	0.084
214	40	1	0.01	0.01	0.082362 374	0.04	0	0.009
215	76	1	0.19	0	0.342334 984	0.05	0	0.028
216	11	1	0.02	0	0.0925	0	0	0
217	204	4	0.23	0.16	0.261200 63	0.1	0	0.061
218	309	4	0.18	0.09	0.323653 69	0.12	0	0.077
219	39	2	0.12	0.05	0.151409 694	0.06	0	0.018
220	67	2	0	0	0.068594 88	0.01	0	0.028
221	59	3	0.07	0.02	0.340493 227	0.03	0	0.072
222	12	1	0.09	0.01	0.199938 547	0.09	0	0.082
223	224	3	0.07	0.06	0.173781 643	0.11	0	0.077
224	28	2	0.04	0.06	0.076003 283	0.02	0	0.009
225	14	1	0	0	0.037589 67	0	0	0
226	24	3	0.01	0.01	0.072307 8	0.03	0	0.024

227	21	1	0.02	0	0.052373 159	0	0	0
228	35	2	0.11	0.06	0.245766 058	0.07	0	0.128
229	153	4	0.14	0.07	0.290525 822	0.15	0	0.058
230	12	1	0.07	0	0.344036 697	0	0	0
231	100	4	0.11	0.07	0.337696 899	0.05	0	0.086
232	12	1	0.22	0.03	0.348867 646	0.03	0	0.019
233	19	2	0.09	0.05	0.328915 402	0.07	0	0.023
234	34	1	0	0	0.265044 814	0	0	0
235	14	2	0.02	0.02	0.075541 978	0.03	0	0.023
236	23	3	0.22	0.05	0.441420 65	0.07	0	0.045
237	64	1	0.01	0.01	0.034576 466	0.02	0	0.036
238	39	2	0.03	0.01	0.007395 779	0.02	0	0.012
239	156	2	0.18	0.02	0.369700 867	0.03	0	0.01
240	34	3	0	0	0.047055 904	0.02	0	0.045
241	58	4	0.01	0.01	0.010850 971	0.01	0	0.033
242	60	3	0	0.01	0.065518 454	0.02	0	0.076
243	14	1	0.17	0.02	0.203057 162	0	0	0.059
244	28	3	0	0	0.019709 735	0.01	0	0.028
245	14	2	0.08	0.03	0.167030 173	0.05	0	0.031
246	11	2	0.08	0.02	0.172298 119	0.03	0	0.044
247	94	2	0	0.01	0.051174 744	0.01	0	0.026

248	18	2	0	0	0.003292 909	0.01	0	0.016
249	32	2	0.13	0.02	0.183060 021	0.07	0	0.061
250	12	1	0.31	0	0.325675 676	0	0	0
251	38	2	0.17	0.08	0.281642 041	0.06	0	0.013
252	41	2	0.15	0.09	0.299434 994	0.1	0	0.066
253	18	2	0.04	0.03	0.088330 553	0.06	0	0.047
254	55	1	0.07	0	0.115623 705	0	0	0
255	18	1	0.28	0.03	0.240321 122	0.03	0	0.013
256	32	3	0.04	0.03	0.117135 031	0.06	0	0.007
257	38	2	0.02	0.03	0.041967 197	0.04	0	0.076
258	48	2	0.01	0.02	0.045036 654	0.1	0	0.043
259	23	3	0.13	0.07	0.304131 381	0.08	0	0.014
260	12	2	0.27	0.05	0.239873 582	0.02	0	0.011
261	37	2	0.14	0.04	0.295992 921	0.12	0	0.169
262	13	3	0.07	0.02	0.225147 195	0.07	0	0.107
263	17	2	0.13	0.14	0.419944 069	0.09	0	0.022
264	23	3	0.2	0.04	0.368620 221	0.1	0	0.142
265	42	2	0.21	0.02	0.152365 149	0.02	0	0.012
266	30	2	0.16	0.15	0.167863 021	0.13	0	0.178
267	19	3	0.03	0.02	0.043373 976	0.02	0	0.089
268	28	3	0.23	0.05	0.435518 792	0.07	0	0.064

269	26	2	0.27	0.04	0.249830 996	0.09	0	0.047
270	12	2	0	0	0.102915 098	0.02	0	0.021
271	33	4	0.16	0.06	0.369633 362	0.09	0	0.109
272	17	1	0.16	0	0.477152 9	0	0	0
273	11	2	0.01	0.02	0.043554 621	0.04	0	0.01
274	29	2	0.19	0.03	0.470275 437	0.03	0	0.003
275	91	2	0.06	0.04	0.155482 35	0.06	0	0.045
276	18	3	0	0.01	0.062774 183	0.01	0	0.045
277	19	3	0.01	0.01	0.132462 439	0.05	0	0.113
278	18	1	0.01	0	0.017673 888	0	0	0
279	18	2	0.02	0.02	0.056279 145	0.02	0	0.03
280	20	3	0.01	0.01	0.044269 104	0.01	0	0.051
281	15	2	0.2	0.02	0.141067 086	0.03	0	0.039
282	34	2	0.17	0.06	0.320311 947	0.08	0	0.013
283	15	1	0.06	0	0.233292 831	0	0	0
284	15	2	0.08	0.01	0.328496 066	0.02	0	0.059
285	23	3	0.02	0.03	0.077384 007	0.06	0	0.017
286	12	1	0.09	0	0.333333 333	0	0	0
287	16	1	0.06	0	0.432140 905	0.06	0	0.046
288	14	2	0	0	0.002106 307	0.01	0	0.017
289	38	2	0.08	0.04	0.094027 793	0.05	0	0.033

290	15	1	0.09	0	0.340425 532	0	0	0
291	11	2	0	0	0.001884 126	0.01	0	0.03
292	12	1	0.36	0	0.292647 059	0	0	0
293	20	2	0	0	0.028357 644	0	0	0.012
294	25	2	0.18	0.03	0.408944 242	0.08	0	0.036
295	18	1	0.06	0	0.368107 303	0	0	0
296	23	2	0.01	0.01	0.020308 79	0.01	0	0.064
297	17	2	0.15	0.01	0.292423 661	0.09	1	0.102
298	13	2	0.16	0.1	0.304052 086	0.11	0	0.068
299	31	1	0	0	0.029488 291	0	0	0
300	14	2	0.06	0.01	0.349783 976	0.01	0	0.009
301	15	2	0.23	0.03	0.210197 365	0.03	0	0.022
302	11	1	0.04	0.02	0.399674 777	0.11	0	0.038
303	14	1	0.01	0	0.026534 86	0	0	0
304	19	2	0	0	0.027936 276	0.01	0	0.014
305	27	2	0.01	0.01	0.047164 881	0.02	0	4E-04
306	15	2	0.04	0.03	0.108999 866	0.01	0	0.029
307	14	2	0.27	0.05	0.233498 941	0.03	0	0.01
308	12	1	0.01	0	0.017673 888	0	0	0
309	12	2	0.18	0.01	0.385850 905	0.02	0	0.037
310	28	1	0.07	0	0.115623 705	0	0	0

311	14	2	0.19	0.07	0.304551 368	0.05	0	0.013
312	11	1	0.08	0	0.186131 387	0	0	0
313	12	2	0.06	0.01	0.332740 123	0.01	0	0.042
314	15	1	0.23	0	0.34375	0	0	0
315	19	2	0.01	0	0.016138 637	0.02	0	5E-04
316	19	2	0.19	0.02	0.390152 904	0.01	0	0.003
317	16	1	0	0	0.185053 381	0	1	0
318	18	1	0.03	0	0.184431 138	0	1	0
319	17	1	0.14	0	0.332197 615	0	0	0
320	22	1	0.25	0	0.317810 458	0	0	0
321	14	1	0.14	0.04	0.368147 598	0.04	0	0.036
322	23	1	0.12	0	0.385291 767	0	0	0
323	11	2	0.3	0.09	0.195241 815	0.03	0	0.002
324	14	2	0.33	0.13	0.151793 142	0.03	0	0.026
325	18	1	0.03	0	0.059367 397	0	0	0
326	22	1	0.16	0	0.477152 9	0	0	0
327	21	1	0.04	0	0.334754 797	0	0	0
328	12	1	0.07	0.03	0.262679 288	0.02	0	0.045
329	14	2	0.22	0.04	0.114408 782	0.02	0	0.019
330	33	1	0.08	0	0.215909 091	0	0	0
331	14	1	0.16	0	0.477152 9	0	0	0
332	12	2	0.21	0.1	0.320652 579	0.02	0	0.038

333	11	2	0.19	0.07	0.188346 458	0.02	0	0.002
334	17	1	0.18	0	0.400289 017	0	0	0
335	16	2	0.29	0.03	0.181971 678	0.05	0	0.001
336	27	1	0.07	0	0.344036 697	0	0	0
337	11	1	0.06	0	0.347556 779	0	0	0
338	16	1	0.08	0	0.395718 654	0	0	0
339	16	1	0.09	0	0.256449 165	0	0	0
340	26	1	0.01	0	0.102809 325	0	0	0
341	27	2	0.37	0.05	0.270619 752	0.03	0	0.007
342	13	1	0	0	0.121444 201	0	0	0
343	11	1	0.18	0	0.413849 959	0	0	0
344	18	3	0.02	0.01	0.031190 448	0.04	0	0.009
345	24	1	0.16	0	0.055851 064	0	0	0
346	14	1	0.16	0	0.055851 064	0	0	0
347	12	1	0.1	0.06	0.174775 689	0.07	0	0.016
348	12	2	0.72	0.06	0.258687 908	0.01	0	0.034
349	15	1	0.17	0	0.455122 393	0	0	0
350	12	1	0	0	0.032286 783	0.02	0	0.024
351	12	1	0.33	0	0.205755 396	0	0	0
352	12	1	0.16	0	0.326963 907	0	0	0
353	20	2	0.3	0.13	0.344398 465	0.07	0	0.075

354	14	1	0.06	0	0.117564 731	0	0	0
355	14	1	0	0	0.056175 729	0	0	0
356	14	1	0.21	0	0.466622 604	0	0	0

Table 2.3.2 - Education

id	Number of Intersections in Urban Pasture	Census Blocks Covered	% Population 25 Years and Over: Bachelor's Degree	Standard Deviation	"% Population 25 Years and Over: Master's Degree"	Standard Deviation	'% Population 25 Years and Over: Professional School Degree	Standard Deviation
0	11	1	0.11188 0046	0	0.03575 5479	0	0.00876 5859	0
1	694	6	0.07920 8536	0.04231 1742	0.01398 4059	0.01714 2237	0.00252 8131	0.00568 8106
2	16	1	0.11046 9909	0	0.04451 7725	0	0	0
3	19	2	0.10394 7976	0.01568 6902	0.04721 1526	0.00794 6634	0.00046 1361	0.00201 1026
4	183	3	0.11896 6805	0.06072 4804	0.05511 1418	0.02876 92	0.00433 751	0.00524 7645
5	26	1	0.09141 791	0	0.02425 3731	0	0	0
6	28	1	0.03310 1045	0	0	0	0	0
7	11	2	0.04026 2773	0.02375 2762	0.00325 0498	0.01078 0682	0.00079 6896	0.00264 3006
8	83	1	0.11046 9909	0	0.04451 7725	0	0	0
9	13	1	0.07853 9802	0.02770 022	0.03412 927	0.00355 6563	0	0
10	230	2	0.19599 871	0.10471 7234	0.06657 2177	0.04550 9059	0.02041 3736	0.01083 4084
11	15	2	0.09419 1765	0.02885 0639	0.06617 1574	0.01039 0802	0.05324 9892	0.01789 3381
12	83	3	0.12173 1425	0.05297 0465	0.06139 0814	0.01117 2172	0.04059 4356	0.02468 5513
13	29	2	0.19861 3208	0.09951 3299	0.03355 8266	0.01815 0429	0.00636 5593	0.00273 5442
14	21	1	0.11188 0046	0	0.03575 5479	0	0.00876 5859	0

15	48	3	0.11012 2372	0.01138 2218	0.03426 5667	0.00722 0495	0.00840 0615	0.00177 0186
16	48	2	0.12136 8367	0.03631 3416	0.03699 8128	0.02079 8589	0.00143 2981	0.00992 7981
17	15	1	0.13973 4579	0.04077 4861	0.03929 1289	0.00517 5896	0.00904 1348	0.00040 3275
18	51	2	0.11557 4081	0.02278 7301	0.06624 6277	0.04068 6941	0.00541 1883	0.00425 7985
19	25	2	0.27976 3428	0.06538 0005	0	0	0	0
20	346	5	0.20599 8884	0.09781 2086	0.11775 5607	0.05278 6162	0.03148 6503	0.02507 0199
21	14	2	0.11506 5736	0.00252 5637	0	0	0	0
22	30	2	0.23705 1148	0.07730 3627	0.02969 9967	0.02051 2294	0.01541 7517	0.02268 758
23	14	2	0.08695 9487	0.00717 263	0.06758 6479	0.00916 1592	0.05636 829	0.01370 0922
24	111	3	0.48413 2676	0.03225 4908	0.25785 8098	0.02648 8544	0.04880 1386	0.04327 8685
25	20	1	0.36766 1213	0	0.20404 2348	0	0.01780 5582	0
26	14	2	0.47164 5743	0.02996 529	0.21683 8877	0.02177 5667	0.07063 2308	0.01327 7131
27	161	1	0.31641 3238	0	0.17687 8354	0	0.03667 263	0
28	14	1	0.47523 8802	0.03165 1659	0.22241 4685	0.01878 6757	0.05350 0623	0.03015 129
29	21	2	0.33244 8011	0.01204 6373	0.15702 3744	0.01792 38	0.03394 5305	0.00777 7846
30	133	3	0.43552 8408	0.04736 3656	0.20232 3042	0.03772 2244	0.09307 8628	0.02112 497
31	28	1	0.21829 7626	0	0.21829 7626	0	0.02779 3862	0
32	17	1	0.33054 3933	0	0.10878 6611	0	0.06335 9235	0
33	16	2	0.35470 971	0.06603 3473	0.11866 0595	0.02698 0862	0.05830 3748	0.01381 422
34	165	3	0.40593 5386	0.10545 2837	0.22147 1403	0.05800 5495	0.03674 3174	0.02347 0522
35	13	1	0.33054 3933	0	0.10878 6611	0	0.06335 9235	0

36	18	2	0.51246 5046	0.00612 942	0.21993 8853	0.03619 1094	0.01640 9058	0.00313 4479
37	12	2	0.51172 6205	0.00654 8042	0.22430 1331	0.03866 2842	0.01678 6888	0.00334 8555
38	29	1	0.47620 3501	0	0.20158 6433	0	0.03501 0941	0
39	15	2	0.35558 0871	0.02850 6921	0.19144 313	0.04241 5453	0.01900 9371	0.01840 5744
40	12	1	0.38529 4118	0	0.06666 6667	0	0.00980 3922	0
41	22	1	0.19613 1354	0	0.06297 7958	0	0	0
42	115	3	0.38231 0641	0.03780 1847	0.19997 9844	0.01879 9594	0.08666 7459	0.02726 6751
43	16	1	0.47965 4303	0	0.21101 9085	0	0.07418 0771	0
44	13	1	0.51470 5882	0	0.37132 3529	0	0	0
45	13	2	0.31237 2178	0.09564 8847	0.16899 1289	0.08723 3148	0	0
46	16	1	0.51470 5882	0	0.37132 3529	0	0	0
47	13	1	0.47965 4303	0	0.21101 9085	0	0.07418 0771	0
48	19	1	0.36292 7288	0.02243 384	0.22487 1313	0.00389 6824	0.04416 2295	0.01458 4737
49	28	2	0.36638 7254	0.00467 7613	0.20002 0409	0.01476 7411	0.01837 5467	0.00209 2455
50	29	1	0.47965 4303	0	0.21101 9085	0	0.07418 0771	0
51	18	1	0.38135 3192	0.01146 9779	0.07567 4281	0.02621 6007	0.01157 9483	0.00516 7642
52	21	3	0.26883 3146	0.05468 4048	0.07380 3139	0.06907 7223	0.00461 9348	0.00861 6445
53	17	2	0.46135 3376	0.08751 7963	0.18488 7048	0.02114 1652	0.02073 2455	0.00992 0644
54	19	1	0.21289 8434	0.07308 6009	0.07920 6672	0.07073 9326	0	0
55	15	1	0.35778 0612	0	0.22576 5306	0	0.04081 6327	0
56	135	2	0.43895 9965	0.12399 4027	0.17124 5719	0.05100 2412	0.06692 8922	0.03021 8107

57	204	4	0.44141 5221	0.09665 6119	0.26998 4101	0.06669 5583	0.08240 3745	0.05168 9389
58	870	4	0.27976 6104	0.08744 35	0.17266 8122	0.07119 1103	0.05703 3638	0.04497 1694
59	178	4	0.18093 0212	0.05987 5174	0.04621 2606	0.01605 2381	0.00364 905	0.00696 3444
60	59	3	0.32444 147	0.04839 9506	0.25028 2895	0.06010 4159	0.13480 5342	0.06197 5294
61	13	1	0.55555 5556	0	0.23174 6032	0	0.02539 6825	0
62	18	1	0.27898 8053	0	0.13843 9916	0	0.11735 7695	0
63	137	3	0.20320 6963	0.04989 1411	0.05104 9675	0.03113 4285	0.03332 3359	0.02240 6072
64	50	2	0.44481 703	0.17166 6749	0.24187 4499	0.04051 6331	0.09463 5563	0.05245 6383
65	797	5	0.35335 835	0.07536 0155	0.19770 4652	0.06266 6124	0.09488 8631	0.05520 2397
66	18	1	0.24866 4688	0	0.07418 3976	0	0.01364 9852	0
67	15	3	0.39578 3306	0.02873 8488	0.24664 2381	0.04043 3676	0.16178 9128	0.05563 7974
68	64	3	0.35189 8154	0.07016 0186	0.26329 5911	0.07799 3368	0.06776 1034	0.02775 4631
69	120	4	0.34787 5038	0.09632 8273	0.17536 9492	0.04904 1521	0.15752 7514	0.07863 2418
70	112	2	0.15739 1817	0.05416 6673	0.14888 7301	0.03415 1481	0.03000 5066	0.01967 9883
71	314	4	0.44591 4405	0.09819 4003	0.23141 7177	0.07977 7737	0.05464 9088	0.03568 9196
72	13	1	0.29873 7728	0	0.24403 9271	0	0.06451 6129	0
73	76	4	0.26128 6561	0.02427 741	0.18216 4499	0.04642 9191	0.02347 5977	0.00918 272
74	12	1	0.38163 0013	0	0.12289 7801	0	0.11384 2173	0
75	38	2	0.35446 8472	0.07182 2357	0.21295 5561	0.02184 0914	0.07817 1245	0.02923 4702
76	935	4	0.34742 6101	0.07103 0113	0.19333 2605	0.06975 3417	0.06814 2912	0.04570 7902
77	27	3	0.23886 6429	0.17918 9901	0.07886 1582	0.07784 49	0.02555 7954	0.02526 5508

78	96	3	0.19290 8444	0.13099 4077	0.10127 5557	0.06582 2818	0.01625 5781	0.01387 626
79	254	3	0.38897 9727	0.12755 393	0.19530 9076	0.08319 0375	0.06563 294	0.05621 4946
80	14	2	0.48700 3375	0.03020 3044	0.25902 8034	0.05209 135	0.06369 3861	0.00692 8665
81	20	1	0.34981 9059	0	0.03136 3088	0	0.01749 0953	0
82	18	2	0.00713 0694	0.03025 2972	0.03971 9165	0.02424 4604	0	0
83	17	2	0.14172 7158	0.02755 7171	0.06267 4793	0.00296 5849	0.01401 4025	9.38E- 05
84	352	5	0.38912 3712	0.08398 7598	0.23419 5423	0.05327 9002	0.12870 7843	0.06289 9505
85	168	3	0.21040 1897	0.03031 8768	0.07415 8055	0.01940 0098	0.00951 0849	0.00575 5769
86	45	1	0.10913 7056	0	0.02791 8782	0	0	0
87	119	3	0.45174 1141	0.13484 0391	0.18179 6946	0.04873 0234	0.08806 1734	0.02173 4419
88	14	2	0.28174 2508	0.02982 317	0.09881 9937	0.00205 8853	0.08722 7634	0.01401 2785
89	25	2	0.25639 52	0.01255 7151	0.11882 8126	0.00733 3486	0.01091 6725	0.03017 2234
90	63	4	0.43333 3405	0.10994 3268	0.24955 03	0.02260 7234	0.08328 3798	0.05011 147
91	16	2	0.15778 6873	0.00229 0109	0.08734 5528	0.01243 4654	0.03589 7042	0.00653 6935
92	13	1	0.06600 4673	0	0.02978 972	0	0	0
93	62	2	0.11498 05	0.00303 5642	0.04039 2744	0.00609 9298	0.00760 2339	0.00017 5302
94	19	1	0.07561 8358	0.04190 5082	0.03212 6259	0.01018 4741	0.00071 8413	0.00313 1491
95	95	4	0.12873 6036	0.05048 285	0.06270 057	0.03467 5058	0.00632 2988	0.00648 0215
96	78	3	0.15948 1346	0.02190 436	0.08329 4555	0.00639 7871	0.03683 8738	0.00444 1077
97	11	1	0.35020 8061	0.01416 9726	0.23263 9046	0.00041 4143	0.16727 6243	0.00933 6283
98	13	3	0.09021 6501	0.05421 6563	0.03836 5838	0.04170 4713	0.00086 5926	0.00312 214

99	18	2	0.15772 3258	0.00215 9135	0.08700 0121	0.01172 3505	0.03607 8624	0.00616 3081
100	28	3	0.52203 0657	0.13341 4451	0.26220 4794	0.07341 3734	0.05898 6314	0.04941 4455
101	14	2	0.07600 4916	0.01908 5544	0.03415 0934	0.01161 5116	0	0
102	50	2	0.44121 6416	0.08655 2367	0.18294 5306	0.00356 7638	0.09265 2242	0.03912 2871
103	11	2	0.29734 0158	0.00176 016	0.11117 2473	0.02560 4864	0.02201 9503	0.02529 8483
104	13	1	0.13658 8818	0	0.09412 5973	0	0	0
105	158	4	0.38568 3946	0.13028 6565	0.18653 1571	0.04275 8079	0.08030 5803	0.02890 5244
106	75	3	0.43253 7598	0.06130 8439	0.28734 1873	0.08139 6489	0.02978 5541	0.03240 2063
107	52	3	0.35052 4513	0.08206 9749	0.25447 9309	0.04120 1019	0.11530 6553	0.07320 5115
108	14	2	0.14096 9017	0.00048 4278	0.07262 1586	0.00935 1226	0.00177 683	0.00184 3904
109	16	2	0.37469 0857	0.00865 4971	0.26687 806	0.00370 4377	0.16052 2258	0.00776 26
110	20	1	0.08715 7828	0.00768 6665	0.05213 0921	0.01466 8301	0.02068 9655	0.00707 5713
111	12	2	0.36175 1742	0.06886 0351	0.12335 4055	0.00158 0512	0.10435 5326	0.03286 3405
112	37	3	0.37526 2195	0.05342 8794	0.18638 4934	0.04115 4898	0.09340 4191	0.03929 7134
113	14	1	0.10918 8957	0.00019 4197	0.02959 0524	0.00625 5087	0.00120 2887	0.00450 0791
114	24	1	0.35166 4255	0	0.09454 8963	0	0.03135 5523	0
115	19	1	0.12644 6281	0	0.01735 5372	0	0.00826 4463	0
116	25	2	0.25846 8422	0.05113 6085	0.09721 3203	0.00353 0197	0.07629 2017	0.02402 6922
117	33	2	0.16234 9587	0.04093 1233	0.05762 8193	0.01170 8188	0.01339 4055	0.01925 893
118	15	3	0.01028 0374	0.02712 9838	0.00661 3717	0.01408 2292	0	0
119	18	3	0.12334 8174	0.01696 6005	0.12604 3056	0.05048 5915	0.00982 7503	0.00836 7838

120	26	2	0.16602 2457	0.00179 6509	0.13206 2458	0.00975 4545	0.01238 922	0.00512 7993
121	11	2	0.34027 7242	0.05972 8323	0.22536 358	0.02145 3194	0.14863 2684	0.03955 0352
122	12	2	0.33485 311	0.01994 8617	0.14012 2179	0.03380 7481	0.05404 7036	0.01714 2847
123	11	2	0.22311 6612	0.20258 5937	0.07856 5713	0.07010 5213	0.01306 2665	0.01812 3713
124	11	2	0.35368 223	0.02732 0382	0.16158 4042	0.09557 9261	0.11033 5498	0.03053 5612
125	19	2	0.32353 2079	0.02156 5523	0.15662 357	0.04304 314	0.05079 5121	0.01312 9784
126	21	1	0.13910 3555	0	0.11128 2844	0	0.01777 4343	0
127	21	3	0.35588 3174	0.04938 7523	0.26055 9499	0.03704 577	0.10363 1483	0.05926 9076
128	12	1	0.12828 6015	0	0.04100 9464	0	0.01156 6772	0
129	11	1	0.06600 4673	0	0.02978 972	0	0	0
130	14	2	0.07758 2367	0.00333 229	0.04742 4004	0.00507 5496	0	0
131	11	1	0.12644 6281	0	0.01735 5372	0	0.00826 4463	0
132	52	2	0.18442 2978	0.02794 1908	0.06050 0424	0.01512 4237	0.00947 5231	0.00484 4365
133	19	3	0.32551 9663	0.11155 9211	0.17351 7585	0.04201 757	0.03844 3751	0.01964 1733
134	15	2	0.16087 852	0.00464 5189	0.10413 2311	0.02522 2083	0.02707 2181	0.01325 9323
135	17	2	0.15303 4989	0.03274 3664	0.06029 259	0.00936 6172	0.00901 1358	0.01540 6521
136	25	2	0.19072 5987	0.06326 1044	0.26738 4318	0.05077 5376	0.04061 8965	0.02300 7229
137	16	2	0.35014 8261	0.02890 6156	0.12456 0057	0.04640 6069	0.09660 298	0.00698 1893
138	20	2	0.29259 0901	0.05874 7399	0.09586 1502	0.08459 8379	0.00089 0736	0.00274 1629
139	24	1	0.33398 8212	0	0.27013 7525	0	0.03045 1866	0
140	22	2	0.38489 5756	0.01872 9455	0.17090 2939	0.00381 909	0.11293 3862	0.00566 3923

141	12	1	0.20158 4507	0	0.16725 3521	0	0	0
142	15	2	0.30615 7113	0.01406 5031	0.27935 6102	0.05460 4298	0.06225 9316	0.06295 9199
143	44	3	0.26756 9956	0.03054 7286	0.26897 834	0.03460 3811	0.03330 2807	0.01212 3176
144	19	3	0.29282 7784	0.07743 8496	0.05316 6177	0.05720 324	0.00833 9337	0.01983 477
145	18	2	0.22718 4844	0.03077 3134	0.12485 8645	0.02534 7116	0.04284 5894	0.01594 6423
146	28	2	0.42300 5845	0.03042 0198	0.21680 5845	0.02592 5886	0.10138 714	0.06256 3768
147	28	3	0.30871 3469	0.01780 6005	0.12006 4845	0.04589 1713	0.04431 8962	0.00926 9205
148	16	2	0.13097 4832	0.02317 6286	0.07998 5142	0.03040 3777	0.00094 4584	0.00377 8338
149	33	2	0.12367 0599	0.03415 5178	0.02127 0737	0.01309 1918	0.00228 9902	0.00550 2915
150	12	3	0.25692 8131	0.06409 6528	0.13357 9315	0.04347 6914	0.02287 7681	0.02430 3659
151	12	1	0.34593 5728	0	0.23251 4178	0	0.16446 1248	0
152	43	2	0.30927 5531	0.01996 978	0.22654 3231	0.00311 6263	0.10194 5866	0.02388 1887
153	13	1	0.25565 6316	0.02095 3748	0.14817 089	0.03999 7906	0.05897 3513	0.00860 8047
154	17	2	0.34868 1327	0.04773 9243	0.17478 737	0.02019 7139	0.04389 6872	0.02209 4135
155	11	1	0.07710 2804	0	0.02803 7383	0	0	0
156	15	2	0.30090 5006	0.03203 2677	0.21285 2705	0.05546 5788	0.02776 4148	0.00260 2372
157	11	1	0.13888 8889	0	0.13002 3641	0	0.03427 896	0
158	18	2	0.33445 8769	0.00594 6495	0.06849 8873	0.03753 3975	0.00891 9865	0.03784 3781
159	12	1	0.33215 7554	0	0.17930 629	0	0.04174 0153	0
160	11	2	0.58813 9113	0.04530 99	0.18700 4961	0.02132 6627	0.05945 7042	0.00179 3271
161	20	3	0.08412 0821	0.01699 5699	0.04610 1507	0.01048 9123	0.00062 8141	0.00193 3376

162	24	2	0.28056 3322	0.11444 2149	0.03953 0658	0.01342 3462	0.01870 5295	0.00264 3298
163	18	1	0.29136 0294	0	0.23161 7647	0	0.07996 3235	0
164	42	1	0.33016 8097	0.00254 1853	0.21144 5282	0.00605 7248	0.05540 3987	0.03398 4367
165	13	1	0.18333 3744	0.01878 0393	0.09948 7836	0.02819 9627	0.03922 1166	0.00244 997
166	29	1	0.34170 5345	0.00516 9734	0.25531 7721	0.02087 3055	0.10962 9452	0.03137 4213
167	11	1	0.30132 7886	0	0.22778 3453	0	0.09244 1267	0
168	23	1	0.46930 281	0	0.22268 4703	0	0.04682 6223	0
169	14	1	0.10913 7056	0	0.02791 8782	0	0	0
170	14	1	0.13658 8818	0	0.09412 5973	0	0	0
171	12	2	0.33376 8666	0.05560 0192	0.03576 9236	0.01526 3344	0.01916 098	0.00578 5143
172	22	1	0.36789 321	0.00790 753	0.21524 0746	0.01625 3927	0.08863 7059	0.00764 0242
173	11	1	0.71732 9545	0	0.17755 6818	0	0.01136 3636	0
174	14	1	0.30581 4647	0.01678 7922	0.22408 0816	0.01385 3996	0.09084 9455	0.00595 6014
175	102	5	0.17829 1909	0.09801 4793	0.05978 2252	0.03835 2741	0.01515 5092	0.01802 0634
176	31	1	0.32062 2829	0.11395 4249	0.20713 1392	0.01819 7263	0.06022 5223	0.01118 6136
177	27	1	0.15224 4899	0.01714 2923	0.14258 4546	0.06187 7939	0.01674 9494	0.00912 3529
178	52	2	0.55125 3956	0.03075 6136	0.23673 4908	0.04479 4172	0.08641 2274	0.03363 4699
179	383	3	0.19820 298	0.09611 4968	0.08150 6826	0.07288 4088	0.00702 1163	0.01248 4076
180	372	4	0.15633 7922	0.05247 636	0.06292 3476	0.03701 5159	0.00944 0317	0.01440 4493
181	170	3	0.30656 1512	0.08979 3508	0.29201 3214	0.11916 5716	0.14884 9565	0.07427 5262
182	44	2	0.46071 1745	0.00781 8539	0.24280 1296	0.01965 0661	0.11505 7969	0.00534 2455

183	95	2	0.11660 4856	0.06466 0313	0.08080 2368	0.01439 7677	0	0
184	203	6	0.21665 8142	0.12791 0157	0.04799 8579	0.03933 1653	0.00347 64	0.00621 3152
185	27	4	0.08668 6788	0.04457 1157	0.01743 271	0.00875 2841	0	0
186	554	4	0.44402 2785	0.07326 1485	0.21479 8034	0.06393 8543	0.12977 2123	0.06063 799
187	23	1	0.09568 7332	0	0.01752 0216	0	0	0
188	80	3	0.13211 8436	0.05150 0296	0.03497 1596	0.02804 3972	0.00294 0454	0.00701 416
189	19	1	0.19206 0086	0	0.03379 8283	0	0.00429 1845	0
190	13	1	0.16880 7339	0	0.06360 8563	0	0	0
191	160	3	0.39612 5803	0.04688 5642	0.18070 6674	0.03338 6455	0.06841 713	0.02461 9109
192	37	2	0.35440 5166	0.10023 0263	0.28357 5966	0.02911 8115	0.14485 2748	0.03198 3232
193	17	1	0.22748 2679	0	0.03117 7829	0	0	0
194	46	3	0.16085 5359	0.02246 929	0.07868 8075	0.00831 1368	0.00232 2161	0.00580 0077
195	16	1	0.42120 6226	0	0.24708 1712	0	0.06225 6809	0
196	50	4	0.09047 5492	0.07219 4064	0.04544 2145	0.02827 9591	0.00250 1525	0.00758 0767
197	25	1	0.04435 4839	0	0.01075 2688	0	0	0
198	16	2	0.05496 6094	0.02653 4464	0.03850 8738	0.03741 1534	0.00237 6426	0.00649 3632
199	17	1	0.39055 0353	0.00088 3956	0.30234 2287	0.05749 0861	0.03183 5797	0.02180 9603
200	12	1	0.17431 1927	0	0.11085 6269	0	0.01987 7676	0
201	101	3	0.11643 1951	0.03304 5181	0.09860 8234	0.06306 6374	0.01216 688	0.01344 4648
202	73	2	0.20495 4997	0.00372 6014	0.08772 1296	0.00404 7223	0.01653 5647	0.00213 4456
203	22	3	0.35551 8367	0.07319 2866	0.18215 6414	0.03385 7087	0.25492 5488	0.07438 6228

204	188	3	0.42480 3976	0.13158 8149	0.21356 4962	0.09035 1473	0.06084 8065	0.04055 687
205	46	2	0.20637 5178	0.03060 7183	0.05691 3181	0.00239 5253	0	0
206	39	2	0.12754 4761	0.01364 8322	0.05763 6307	0.00503 9498	0.00073 6313	0.00459 8275
207	171	4	0.42704 0008	0.07940 8055	0.21780 2905	0.08052 1771	0.09562 4651	0.03920 0372
208	26	1	0.22748 2679	0	0.03117 7829	0	0	0
209	45	2	0.10518 6486	0.00278 906	0.11352 1837	0.01618 7992	0.02991 6547	0.00478 7357
210	11	2	0.07963 1934	0.03140 1801	0.05180 6606	0.01958 4558	0.02326 7568	0.00112 43
211	697	6	0.17882 6489	0.08321 7292	0.08688 071	0.06591 17	0.01399 5205	0.01703 1307
212	421	4	0.12770 6241	0.06442 6214	0.05467 7065	0.05180 5689	0.00824 4721	0.01594 9877
213	29	2	0.09935 8603	0.07520 4314	0.04784 7723	0.04187 7752	0.00823 0284	0.01668 4248
214	40	1	0.37636 1793	0.01047 4904	0.27533 4903	0.05177 1077	0.07083 7432	0.01496 7572
215	76	1	0.12642 0735	0.04955 3536	0.04493 0816	0.02207 1428	0.00011 0881	0.00096 6639
216	11	1	0.33916 6667	0	0.22583 3333	0	0.125	0
217	204	4	0.18214 4328	0.15013 7868	0.06362 1044	0.04368 5744	0.01075 558	0.02228 7738
218	309	4	0.10465 2938	0.09549 6779	0.05783 9142	0.04293 2903	0.00779 1066	0.01764 7456
219	39	2	0.22906 7764	0.04948 8078	0.10911 183	0.02459 5141	0.06588 2974	0.01809 1856
220	67	2	0.52892 3328	0.04829 6299	0.20785 6729	0.02388 701	0.05261 6935	0.02331 6521
221	59	3	0.16969 6464	0.04348 7544	0.03298 7138	0.01917 8604	0.00395 0614	0.01164 5413
222	12	1	0.19996 8116	0.01547 1264	0.08741 1377	0.01413 7802	0.01968 3545	0.00011 7066
223	224	3	0.34056 6797	0.11171 0273	0.15263 6701	0.08200 4159	0.04374 7714	0.03434 3954
224	28	2	0.50160 2111	0.04852 8475	0.17200 024	0.01537 0242	0.03873 6806	0.00628 1798

225	14	1	0.41779 0531	0	0.22783 3572	0	0.07977 0445	0
226	24	3	0.33858 8092	0.06056 8663	0.22383 5793	0.05722 6264	0.20539 5202	0.03147 6848
227	21	1	0.38952 5368	0	0.23567 9214	0	0.00654 6645	0
228	35	2	0.18191 1222	0.05969 1576	0.22232 4122	0.16449 1033	0.01654 5893	0.01651 6055
229	153	4	0.21591 8315	0.10993 3136	0.06755 6286	0.05308 2113	0.00795 8227	0.00979 9804
230	12	1	0.17431 1927	0	0.11085 6269	0	0.01987 7676	0
231	100	4	0.17072 4557	0.01921 8473	0.04783 2519	0.03996 7753	0.01382 8425	0.02285 255
232	12	1	0.11658 5167	0.01705 8587	0.02912 2064	0.01764 5424	0.00074 3052	0.00257 4009
233	19	2	0.19607 259	0.03731 6321	0.07912 5733	0.00232 289	0	0
234	34	1	0.14468 63	0	0.10371 3188	0	0.05121 6389	0
235	14	2	0.41996 8216	0.07196 1112	0.22651 246	0.03683 4519	0.06608 765	0.02091 1893
236	23	3	0.11164 5664	0.05768 1733	0.02009 5911	0.02505 8381	0.00456 8644	0.00341 1452
237	64	1	0.39062 3308	0.00605 5436	0.31729 5138	0.04927 4841	0.04873 727	0.01581 1809
238	39	2	0.59899 6035	0.03662 0183	0.22563 8642	0.01613 2153	0.01203 001	0.03282 1629
239	156	2	0.10642 0576	0.01931 438	0.04383 9892	0.02669 5094	0.01598 1653	0.00935 3251
240	34	3	0.62013 7117	0.06152 0685	0.08491 6966	0.05674 9743	0.06419 5902	0.01107 6967
241	58	4	0.40180 5467	0.05134 0482	0.26931 3636	0.05104 5539	0.14997 0186	0.03474 4228
242	60	3	0.43806 2743	0.04514 033	0.21514 3597	0.03837 7368	0.04664 8999	0.04412 6132
243	14	1	0.16859 5301	0.02893 504	0.09082 4242	0.01663 8305	0.01386 9626	0.03525 5973
244	28	3	0.45288 7889	0.02787 2154	0.26051 7632	0.02535 8122	0.12077 3297	0.04081 6876
245	14	2	0.24827 2438	0.05178 5986	0.23149 9462	0.06217 5719	0.07278 2997	0.01173 2135

246	11	2	0.24250 1618	0.03626 5713	0.33029 1214	0.07796 5444	0.03973 3362	0.04431 2233
247	94	2	0.47431 0551	0.03570 4678	0.23447 8613	0.00849 273	0.07383 6079	0.00595 688
248	18	2	0.37815 9102	0.06581 8257	0.33545 9502	0.04475 7376	0.24513 5715	0.05635 1232
249	32	2	0.28729 62	0.08355 7292	0.14533 7561	0.03870 3152	0.02089 4706	0.00635 5447
250	12	1	0	0	0	0	0	0
251	38	2	0.19537 5172	0.09575 5822	0.06766 4784	0.04796 1715	0	0
252	41	2	0.23461 5646	0.09667 3142	0.07707 5987	0.06014 4016	0.00307 5477	0.00351 9671
253	18	2	0.45074 2818	0.02742 4357	0.17748 4863	0.04114 4677	0.05810 4691	0.05125 4758
254	55	1	0.24326 5644	0	0.19477 8284	0	0.05263 1579	0
255	18	1	0.14391 8985	0.00651 4831	0.09562 5048	0.00966 0705	0.01834 1641	0.00067 8069
256	32	3	0.45942 6376	0.03351 941	0.18126 9813	0.04263 2509	0.05604 5155	0.01711 5855
257	38	2	0.53074 1036	0.16229 8261	0.19357 8341	0.00067 7445	0.05135 24	0.00072 2178
258	48	2	0.59025 1072	0.11627 0169	0.18388 2146	0.03649 3056	0.04777 0701	0.01246 4868
259	23	3	0.12345 6365	0.03931 0159	0.11647 4009	0.03745 7556	0.01893 1561	0.00637 1108
260	12	2	0.14357 8369	0.00649 9265	0.10093 9196	0.01052 0816	0.01825 0951	0.00023 9482
261	37	2	0.21257 8534	0.00778 0746	0.06939 0829	0.01188 3746	0.00849 0816	0.00986 1718
262	13	3	0.19010 4152	0.05266 7629	0.19151 7539	0.06627 2951	0.06599 1788	0.03011 369
263	17	2	0.14695 3152	0.08251 0773	0.07662 0519	0.01008 5366	0.00520 5622	0.00346 363
264	23	3	0.07425 5083	0.07441 8728	0.00238 8915	0.01145 6836	0	0
265	42	2	0.20224 5212	0.01285 2709	0.09182 9075	0.00137 443	0.03314 9901	0.00338 7536
266	30	2	0.24133 7318	0.09139 8406	0.05745 7957	0.07215 7795	0.00141 5094	0.00287 8571
267	19	3	0.39369 7139	0.03670 8754	0.26172 469	0.03684 7416	0.12165 7999	0.02220 9809

268	28	3	0.07958 7189	0.02102 766	0.02824 7143	0.01569 2404	0.02262 4265	0.01188 0799
269	26	2	0.05013 9265	0.02194 3805	0.06360 5645	0.01872 4995	0.00079 5071	0.00023 4062
270	12	2	0.37414 4933	0.01718 2383	0.24206 555	0.00762 8393	0.08362 0388	0.00875 6457
271	33	4	0.14749 9284	0.11586 746	0.06983 5027	0.02001 1598	0.01849 7966	0.01984 7213
272	17	1	0.10808 4359	0	0.00790 8612	0	0	0
273	11	2	0.49301 3165	0.05712 8179	0.21141 3959	0.02870 1451	0.09953 2343	0.03338 3659
274	29	2	0.06200 2242	0.00681 7277	0.01138 8836	0.00546 6551	0	0
275	91	2	0.18939 2374	0.03185 1807	0.12249 2554	0.01739 3753	0.02419 0575	0.00449 1226
276	18	3	0.47193 7915	0.04014 3822	0.22990 4508	0.03378 4161	0.10485 0146	0.01795 3646
277	19	3	0.39120 1183	0.04465 8416	0.16629 3894	0.08099 1301	0.06796 5018	0.04941 9676
278	18	1	0.54332 9532	0	0.26852 9076	0	0.05473 2041	0
279	18	2	0.46925 2101	0.08810 2789	0.19243 1236	0.04338 3453	0.06979 034	0.05957 4698
280	20	3	0.41322 9459	0.07161 5621	0.22397 9583	0.02161 1262	0.14919 5612	0.04201 4476
281	15	2	0.20995 5476	0.01886 4256	0.10415 599	0.04891 7973	0.04009 0011	0.02398 0372
282	34	2	0.17233 872	0.01943 3618	0.05342 4354	0.00659 7899	0	0
283	15	1	0.11421 6282	0	0.09234 5079	0	0.00850 5468	0
284	15	2	0.08306 0886	0.03880 9843	0.03948 5975	0.02042 2879	0.01644 3196	0.02503 5641
285	23	3	0.45035 8535	0.01535 5453	0.21699 7277	0.04909 0729	0.05832 7348	0.00946 0357
286	12	1	0.06105 0061	0	0.03052 5031	0	0	0
287	16	1	0.10639 7303	0.06536 8241	0.01849 6215	0.02833 4044	0.00752 7529	0.01153 1297
288	14	2	0.65347 8533	0.05228 7034	0.20746 4837	0.01292 8936	0.08834 112	0.00402 9649

289	38	2	0.41455 0066	0.15194 7467	0.17373 7918	0.03573 3081	0.05253 356	0.03064 6629
290	15	1	0.24734 0426	0	0.02925 5319	0	0	0
291	11	2	0.48014 0194	0.01174 2128	0.16989 393	0.03129 3938	0.08248 8221	0.00201 0986
292	12	1	0.18676 4706	0	0	0	0	0
293	20	2	0.47022 9482	0.00487 2926	0.25255 3273	0.00051 7679	0.10335 1565	0.00310 8245
294	25	2	0.10324 1826	0.03526 5194	0.06773 0869	0.01269 7911	0	0
295	18	1	0.17436 6617	0	0.08047 69	0	0	0
296	23	2	0.44024 1695	0.10730 4542	0.25999 2716	0.01758 7956	0.07041 9612	0.04299 2726
297	17	2	0.02870 019	0.02184 8847	0.00695 7622	0.00529 669	0	0
298	13	2	0.23028 3714	0.09983 6635	0.07438 0928	0.06211 2144	0.00323 3194	0.00363 4848
299	31	1	0.47181 2663	0	0.25238 5082	0	0.10234 1717	0
300	14	2	0.19688 5909	0.01268 1913	0.06041 8178	0.00460 3327	0.02236 7515	0.00643 7814
301	15	2	0.17737 3217	0.04348 9792	0.02631 0023	0.03512 2704	0.01615 6798	0.00794 045
302	11	1	0.10094 6721	0.00991 2847	0.02264 6393	0.05038 5043	0.01164 6716	0.02591 2308
303	14	1	0.47346 514	0	0.20915 7128	0	0.12382 9344	0
304	19	2	0.48210 9514	0.04488 2933	0.24983 8996	0.01109 8135	0.10154 8161	0.00345 9031
305	27	2	0.41234 0325	0.09705 5759	0.20893 7926	0.04546 9003	0.20719 1681	0.08697 8389
306	15	2	0.35490 1096	0.01622 8557	0.21530 8771	0.01413 087	0.05787 15	0.01121 3049
307	14	2	0.05457 6325	0.03984 3699	0.06398 425	0.01841 5934	0.00079 9803	0.00023 0199
308	12	1	0.54332 9532	0	0.26852 9076	0	0.05473 2041	0
309	12	2	0.05090 425	0.03869 1073	0.06411 3557	0.00731 4827	0.00837 5923	0.02901 5048

310	28	1	0.24326 5644	0	0.19477 8284	0	0.05263 1579	0
311	14	2	0.14892 306	0.02439 5701	0.08778 439	0.05748 8488	0.00363 7098	0.00924 5343
312	11	1	0.17518 2482	0	0.10948 9051	0	0	0
313	12	2	0.13826 7085	0.01037 5802	0.02222 6668	0.00746 5621	0.00460 4052	0.00215 055
314	15	1	0.08203 125	0	0.05468 75	0	0.01953 125	0
315	19	2	0.28537 0086	0.02493 9339	0.25905 8527	0.01954 82	0.25995 0588	0.01565 9798
316	19	2	0.12747 8759	0.00390 3681	0.04311 1797	0.02057 1718	0.00111 3586	0.00485 4008
317	16	1	0.12099 6441	0	0.12455 516	0	0.06405 694	0
318	18	1	0.21437 1257	0	0.05628 7425	0	0	0
319	17	1	0.17376 4906	0	0.04088 586	0	0.10051 1073	0
320	22	1	0.07352 9412	0	0.05637 2549	0	0.00980 3922	0
321	14	1	0.18350 5988	0.03034 4994	0.04484 7562	0.00385 1946	0.00947 4259	0.00030 012
322	23	1	0.19544 3645	0	0.04636 291	0	0.00959 2326	0
323	11	2	0.19582 304	0.07920 2969	0.11394 662	0.03193 9339	0.01171 4624	0.00783 4221
324	14	2	0.21447 0085	0.04608 6356	0.11546 1675	0.02608 1354	0.01068 2005	0.00307 4493
325	18	1	0.36545 0122	0	0.21021 8978	0	0.09099 7567	0
326	22	1	0.10808 4359	0	0.00790 8612	0	0	0
327	21	1	0.27505 3305	0	0.01961 6205	0	0.00426 4392	0
328	12	1	0.10980 3121	0.00020 9756	0.04937 2809	0.00675 6267	0.01543 7049	0.00486 141
329	14	2	0.25421 0069	0.06190 7949	0.15717 7197	0.01885 4357	0.03007 1704	0.00482 2282
330	33	1	0.25	0	0.22058 8235	0	0.02205 8824	0

331	14	1	0.10808 4359	0	0.00790 8612	0	0	0
332	12	2	0.12970 8074	0.05587 8037	0.03334 1617	0.02943 1807	0	0
333	11	2	0.25530 3597	0.00340 6297	0.14991 3607	0.04539 1602	0.01852 7092	0.00226 8296
334	17	1	0.17052 0231	0	0	0	0	0
335	16	2	0.08834 4227	0.01368 1917	0.06474 0896	0.00456 5826	0	0
336	27	1	0.17431 1927	0	0.11085 6269	0	0.01987 7676	0
337	11	1	0.20027 5292	0	0.05918 7887	0	0.02408 8094	0
338	16	1	0.16880 7339	0	0.06360 8563	0	0	0
339	16	1	0.17147 1927	0	0.07132 0182	0	0.04248 8619	0
340	26	1	0.33054 3933	0	0.10878 6611	0	0.06335 9235	0
341	27	2	0.17183 8705	0.01846 6686	0.03050 6385	0.02679 0278	0.01426 0957	0.00964 067
342	13	1	0.47620 3501	0	0.20158 6433	0	0.03501 0941	0
343	11	1	0.11046 9909	0	0.04451 7725	0	0	0
344	18	3	0.54059 9012	0.02846 5206	0.19570 2384	0.01481 5793	0.02435 2472	0.01430 4338
345	24	1	0.41356 383	0	0.16422 8723	0	0.09840 4255	0
346	14	1	0.41356 383	0	0.16422 8723	0	0.09840 4255	0
347	12	1	0.32321 2971	0.09639 9174	0.24865 6709	0.00939 738	0.02959 2198	0.02808 8602
348	12	2	0	0	0.00718 8498	0.01678 8715	0	0
349	15	1	0.09066 1831	0	0.06074 3427	0	0	0
350	12	1	0.35890 7985	0.01813 3029	0.18026 629	0.01496 4025	0.07201 3016	0.00643 3231
351	12	1	0.17194 2446	0	0.10431 6547	0	0.00935 2518	0

352	12	1	0.13658 8818	0	0.09412 5973	0	0	0
353	20	2	0.15085 2488	0.08575 4018	0.00470 4463	0.01148 979	0.00262 3643	0.00640 7768
354	14	1	0.28971 3086	0	0.09937 0189	0	0.09097 2708	0
355	14	1	0.47965 4303	0	0.21101 9085	0	0.07418 0771	0
356	14	1	0.09715 7964	0	0.00925 3139	0	0	0

Table 2.3.3 - Education

id	Number of Intersections in Urban Pasture	Census Blocks Covered	'% Population 25 Years and Over: Doctorate Degree'	Standard Deviation
0	11	1	0.015916955	0
1	694	6	0.003807303	0.006958358
2	16	1	0.001648805	0
3	19	2	0.002139422	0.003392495
4	183	3	0.001664078	0.003964478
5	26	1	0	0
6	28	1	0	0
7	11	2	0.001446996	0.004799143
8	83	1	0.001648805	0
9	13	1	0.000649444	0.002341605
10	230	2	0.020444291	0.01953512
11	15	2	0.001247648	0.004121612
12	83	3	0.001376928	0.002166447
13	29	2	0.020084079	0.008828595
14	21	1	0.015916955	0
15	48	3	0.015253749	0.003214285
16	48	2	0.00989527	0.004379049
17	15	1	0.011543891	0.006401511
18	51	2	0.01020179	0.008084176
19	25	2	0	0
20	346	5	0.016213558	0.015502212
21	14	2	0	0
22	30	2	0.021492537	0.010929979
23	14	2	0.001136925	0.004253985
24	111	3	0.022131906	0.005559797
25	20	1	0	0
26	14	2	0.02039714	0.005870701
27	161	1	0.021243292	0
28	14	1	0.017272099	0.007925465
29	21	2	0.014343087	0.003286414
30	133	3	0.026698169	0.015705154
31	28	1	0.001158078	0

32	17	1	0	0
33	16	2	0	0
34	165	3	0.01817368	0.039715182
35	13	1	0	0
36	18	2	0.012152222	0.008505818
37	12	2	0.013177514	0.009086741
38	29	1	0.025984683	0
39	15	2	0.008032129	0.007777075
40	12	1	0.024509804	0
41	22	1	0.029689609	0
42	115	3	0.024264382	0.002256806
43	16	1	0.021966151	0
44	13	1	0.029411765	0
45	13	2	0.01141908	0.015033918
46	16	1	0.029411765	0
47	13	1	0.021966151	0
48	19	1	0.001887749	0.008228509
49	28	2	0	0
50	29	1	0.021966151	0
51	18	1	0.021786492	0.007926001
52	21	3	0.015501623	0.00887967
53	17	2	0.009388843	0.00377354
54	19	1	0.029674985	6.37E-05
55	15	1	0	0
56	135	2	0.050557129	0.031537826
57	204	4	0.055083885	0.022487597
58	870	4	0.04073533	0.038343998
59	178	4	0.004779662	0.007632741
60	59	3	0.071577213	0.04450752
61	13	1	0.027777778	0
62	18	1	0.019676739	0
63	137	3	0.009242094	0.004929881
64	50	2	0.041915549	0.011192675
65	797	5	0.075493128	0.031783193
66	18	1	0.00652819	0
67	15	3	0.083307974	0.015208012
68	64	3	0.094174918	0.023894681
69	120	4	0.090499159	0.03788181
70	112	2	0.03995675	0.020583177

71	314	4	0.023699651	0.01771291
72	13	1	0	0
73	76	4	0.007902959	0.008197205
74	12	1	0.010349288	0
75	38	2	0.037411877	0.01392201
76	935	4	0.043169834	0.035250007
77	27	3	0.014868687	0.016940368
78	96	3	0.018541605	0.017258834
79	254	3	0.039567597	0.038101815
80	14	2	0.041781795	0.004512926
81	20	1	0.047647768	0
82	18	2	0	0
83	17	2	0.024072867	0.00452116
84	352	5	0.05775971	0.037048945
85	168	3	0.022611106	0.006603374
86	45	1	0.009517766	0
87	119	3	0.007825209	0.013059438
88	14	2	0.033720405	0.000488218
89	25	2	0.022282643	0.004261592
90	63	4	0.038778202	0.01198409
91	16	2	0.009382819	0.002502085
92	13	1	0	0
93	62	2	0.007069148	0.001871604
94	19	1	0.000343589	0.001497669
95	95	4	0.007239385	0.005978667
96	78	3	0.010563048	0.004301008
97	11	1	0.080888865	0.001315303
98	13	3	0.000899685	0.003243861
99	18	2	0.009452321	0.002358988
100	28	3	0.046940056	0.031785169
101	14	2	0.006683375	0.006006463
102	50	2	0.064502438	0.02874304
103	11	2	0.029325437	0.018138279
104	13	1	0.019815994	0
105	158	4	0.078461038	0.031922012
106	75	3	0.031662316	0.022718501
107	52	3	0.080699659	0.055083322
108	14	2	0.011350235	0.004447658
109	16	2	0.076677585	0.001895002

110	20	1	0.000513347	0.001580049
111	12	2	0.011735417	0.00480169
112	37	3	0.034523364	0.010783429
113	14	1	0.010040813	0.001957061
114	24	1	0.038109021	0
115	19	1	0	0
116	25	2	0.034101411	0.000837119
117	33	2	0.013742457	0.003706115
118	15	3	0	0
119	18	3	0.016528603	0.015316411
120	26	2	0.000384936	0.001962797
121	11	2	0.100576252	0.003109785
122	12	2	0.040305887	0.00630926
123	11	2	0.020123566	0.027920314
124	11	2	0.068477091	0.023624954
125	19	2	0.023915709	0.009532647
126	21	1	0.032457496	0
127	21	3	0.06017313	0.00972138
128	12	1	0.012618297	0
129	11	1	0	0
130	14	2	0.017724587	0.005101487
131	11	1	0	0
132	52	2	0.002987136	0.002994875
133	19	3	0.040236498	0.02950557
134	15	2	0.006005004	0.005075155
135	17	2	0.014585847	0.002964772
136	25	2	0.100563381	0.020599612
137	16	2	0.068755847	0.026839534
138	20	2	0.050963822	0.000979488
139	24	1	0.035363458	0
140	22	2	0.118190413	0.014173068
141	12	1	0.018485915	0
142	15	2	0.206715353	0.046753344
143	44	3	0.003079744	0.01010974
144	19	3	0.005521955	0.014079932
145	18	2	0.015914352	0.013063316
146	28	2	0.057070202	0.010733176
147	28	3	0.016941994	0.009068808
148	16	2	0.018406029	0.004930374

149	33	2	0.015691248	0.00673778
150	12	3	0.020108691	0.018821773
151	12	1	0.081285444	0
152	43	2	0.087732552	0.004851238
153	13	1	0.068281402	0.030304152
154	17	2	0.02730017	0.016058362
155	11	1	0	0
156	15	2	0.020545152	0.014347763
157	11	1	0	0
158	18	2	0.019619986	0.019970018
159	12	1	0.025279248	0
160	11	2	0.015682422	0.005530871
161	20	3	0.018063627	0.002787813
162	24	2	0.034022511	0.021726697
163	18	1	0.090073529	0
164	42	1	0.04900053	0.013234659
165	13	1	0.035154634	0.000944772
166	29	1	0.045047695	0.006815441
167	11	1	0.085801839	0
168	23	1	0.020811655	0
169	14	1	0.009517766	0
170	14	1	0.019815994	0
171	12	2	0.044511149	0.010865567
172	22	1	0.070748023	0.002540234
173	11	1	0.024147727	0
174	14	1	0.084922897	0.003288698
175	102	5	0.005865686	0.007971001
176	31	1	0.028193604	0.0024229
177	27	1	0.004294742	0.002339366
178	52	2	0.012955708	0.014009289
179	383	3	0.007600283	0.01108238
180	372	4	0.016340768	0.022920367
181	170	3	0.051573975	0.033302579
182	44	2	0.034771846	0.006025511
183	95	2	0.000502689	0.00489961
184	203	6	0.000524348	0.002595159
185	27	4	0	0
186	554	4	0.028173502	0.01666439
187	23	1	0	0

188	80	3	0.009422492	0.011921048
189	19	1	0.012339056	0
190	13	1	0	0
191	160	3	0.017626827	0.014035102
192	37	2	0.024201174	0.00728005
193	17	1	0.006928406	0
194	46	3	0.003808315	0.009941682
195	16	1	0.023346304	0
196	50	4	0.000661939	0.003275746
197	25	1	0	0
198	16	2	0.007287706	0.019913804
199	17	1	0.032966675	0.005444558
200	12	1	0.059633028	0
201	101	3	0.005831735	0.00653802
202	73	2	0.01309072	0.001689778
203	22	3	0.065578683	0.013053015
204	188	3	0.037912828	0.029231356
205	46	2	0	0
206	39	2	0.000779626	0.004868761
207	171	4	0.034584426	0.028135964
208	26	1	0.006928406	0
209	45	2	0.000389869	0.001874485
210	11	2	0.011382436	0.016002911
211	697	6	0.012705325	0.017302737
212	421	4	0.002837063	0.008228775
213	29	2	0.011356917	0.017550236
214	40	1	0.039239505	0.007513618
215	76	1	0.011913384	0.00522098
216	11	1	0.033333333	0
217	204	4	0.00558088	0.010683322
218	309	4	0.011663845	0.018200767
219	39	2	0.01036312	0.001985756
220	67	2	0.026278517	0.010224733
221	59	3	0.002734704	0.005188353
222	12	1	0.043916104	0.009477661
223	224	3	0.03464767	0.020758346
224	28	2	0.00707077	0.000528732
225	14	1	0.065136298	0
226	24	3	0.044144092	0.017040799

227	21	1	0.039279869	0
228	35	2	0.011547002	0.019912658
229	153	4	0.005005825	0.006493049
230	12	1	0.059633028	0
231	100	4	0.016551669	0.012917212
232	12	1	0.009759167	0.001981078
233	19	2	0.005857967	0.010070858
234	34	1	0	0
235	14	2	0.037848308	0.013316188
236	23	3	0.030838346	0.0230273
237	64	1	0.039412899	0.021799958
238	39	2	0.036180437	0.01111052
239	156	2	0.004991025	0.003039194
240	34	3	0.063427518	0.019043106
241	58	4	0.025846936	0.019201135
242	60	3	0.060331366	0.034985083
243	14	1	0.031110672	0.000804545
244	28	3	0.036823194	0.016693543
245	14	2	0.018374022	0.005520935
246	11	2	0.010392147	0.012500395
247	94	2	0.025787356	0.00265892
248	18	2	0.00453793	0.015000825
249	32	2	0.003974449	0.010472103
250	12	1	0	0
251	38	2	0.030161363	0.023345345
252	41	2	0.020759472	0.023757783
253	18	2	0.036016477	0.015628257
254	55	1	0.029838375	0
255	18	1	0.000379435	0.001609805
256	32	3	0.01104039	0.012745073
257	38	2	0.007066984	0.012855908
258	48	2	0	0
259	23	3	0.046655512	0.021649184
260	12	2	0.004858471	0.016830236
261	37	2	0.068779818	0.025702657
262	13	3	0.017707251	0.004431283
263	17	2	0	0
264	23	3	0	0
265	42	2	0.033898305	0.007671772

266	30	2	0.012222971	0.017194114
267	19	3	0.100342615	0.052785633
268	28	3	0.023889961	0.012705064
269	26	2	0	0
270	12	2	0.046039536	0.005722691
271	33	4	0.005533801	0.01107174
272	17	1	0.012302285	0
273	11	2	0.016547416	0.006910959
274	29	2	0.004425405	0.001801495
275	91	2	0	0
276	18	3	0.029056631	0.0186257
277	19	3	0.021382742	0.025776145
278	18	1	0.052451539	0
279	18	2	0.034425455	0.012573188
280	20	3	0.040583117	0.012869012
281	15	2	0.034103341	0.005770277
282	34	2	0.011194549	0.007858172
283	15	1	0.012150668	0
284	15	2	0.000549828	0.002129475
285	23	3	0.021746943	0.014948235
286	12	1	0	0
287	16	1	0	0
288	14	2	0.024108706	0.010784546
289	38	2	0.037314718	0.004639973
290	15	1	0.012411348	0
291	11	2	0.052965182	0.017566564
292	12	1	0	0
293	20	2	0.058578537	0.009233665
294	25	2	0	0
295	18	1	0	0
296	23	2	0.015090683	0.014246351
297	17	2	0	0
298	13	2	0.02182406	0.024535223
299	31	1	0.061578491	0
300	14	2	0.001305173	0.004883511
301	15	2	0	0
302	11	1	0	0
303	14	1	0.041623309	0
304	19	2	0.059454697	0.009257401

305	27	2	0.044002537	0.029383669
306	15	2	0.032515084	0.002557222
307	14	2	0.001736865	0.006498754
308	12	1	0.052451539	0
309	12	2	0.000993754	0.003442463
310	28	1	0.029838375	0
311	14	2	0.008486563	0.021572467
312	11	1	0	0
313	12	2	0	0
314	15	1	0	0
315	19	2	0.067558163	0.005474308
316	19	2	0.001465244	0.006386852
317	16	1	0	0
318	18	1	0	0
319	17	1	0.011925043	0
320	22	1	0.008986928	0
321	14	1	0.004671932	0.004764058
322	23	1	0.002797762	0
323	11	2	0.008456068	0.006571057
324	14	2	0.019075009	0.005490165
325	18	1	0.071532847	0
326	22	1	0.012302285	0
327	21	1	0.026865672	0
328	12	1	0.016230196	0.002113867
329	14	2	0.03890431	0.005207424
330	33	1	0.00868984	0
331	14	1	0.012302285	0
332	12	2	0.010131712	0.012521061
333	11	2	0.002369956	0.004059019
334	17	1	0.033236994	0
335	16	2	0	0
336	27	1	0.059633028	0
337	11	1	0	0
338	16	1	0	0
339	16	1	0	0
340	26	1	0	0
341	27	2	0.013376698	0.013453939
342	13	1	0.025984683	0
343	11	1	0.001648805	0

344	18	3	0.025882057	0.007216013
345	24	1	0.023271277	0
346	14	1	0.023271277	0
347	12	1	0.014724748	0.006039173
348	12	2	0	0
349	15	1	0	0
350	12	1	0.074522091	0.003552199
351	12	1	0.00647482	0
352	12	1	0.019815994	0
353	20	2	0.007147165	0.017455643
354	14	1	0.033589923	0
355	14	1	0.021966151	0
356	14	1	0	0