Vacant City-Owned Properties in Central Brooklyn

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# Management

## Installing Packages

First, let’s load all necessary packages:

library(knitr)  
library(dplyr)

##   
## Attaching package: 'dplyr'

## The following objects are masked from 'package:stats':  
##   
## filter, lag

## The following objects are masked from 'package:base':  
##   
## intersect, setdiff, setequal, union

library(flextable)

## Loading the File

Let us first load the file:

COLP=read.csv("~/Documents/vacanthome/data/input/COLP.csv")

# Analysis

## Brooklyn Properties

We can restirct the dataset to only include city-owned Brooklyn properties with no current use:

data\_brooklyn <- COLP %>%  
 filter(BOROUGH == 3 & OWNERSHIP == "C" & CATEGORY == 3)

Now, let’s see how many vacant properties there are in Brooklyn:

data\_brooklyn\_s <- data\_brooklyn %>%  
 group\_by(USE.TYPE) %>%  
 summarize(number = n())  
print(data\_brooklyn\_s)

## # A tibble: 4 × 2  
## USE.TYPE number  
## <chr> <int>  
## 1 NO USE 297  
## 2 NO USE-NON RESIDENTIAL STRUCTURE 13  
## 3 NO USE-VACANT LAND 549  
## 4 NO USE-WATERFRONT (ANY AGENCY) 22

There are 549 vacant land areas in Brooklyn, and 13 non-residential structures without any use.

## Central Brooklyn Properties

Let’s now zoom in on Central Brooklyn, which I am defining to include the following community districts: 302, 303, 306, 308, 309

data\_central\_brooklyn <- data\_brooklyn %>%  
 filter(CD %in% c(302, 303, 306, 308, 309))

Let’s save this data that includes just those five community districts:

save(data\_central\_brooklyn, file = "data\_central\_brooklyn.RData")

We can now summarize the data again:

data\_central\_brooklyn\_s <- data\_central\_brooklyn %>%  
 group\_by(USE.TYPE) %>%  
 summarize(number = n())  
print(data\_central\_brooklyn\_s)

## # A tibble: 4 × 2  
## USE.TYPE number  
## <chr> <int>  
## 1 NO USE 128  
## 2 NO USE-NON RESIDENTIAL STRUCTURE 5  
## 3 NO USE-VACANT LAND 170  
## 4 NO USE-WATERFRONT (ANY AGENCY) 1

There are 170 vacant land areas in Central Brooklyn, and 5 non-residential structures without any use.

# Tables

## Non-residential Vacant Structures

Let’s now list all five non-residential structures in Central Brooklyn without any use in a nice table:

#filter and rename columns  
filtered\_data\_buildings <- data\_central\_brooklyn %>%  
 filter(USE.TYPE == "NO USE-NON RESIDENTIAL STRUCTURE") %>%  
 select(  
 `Community District` = CD,   
 `House Number` = HOUSE.NUMBER,   
 `Street Name` = STREET.NAME,   
 `Address` = ADDRESS,   
 `Parcel Name` = PARCEL.NAME,   
 `Agency` = AGENCY  
 )  
  
#create a formatted table  
table\_buildings <- flextable(filtered\_data\_buildings) %>%  
 set\_caption("List of Non-Residential Structures in Central Brooklyn") %>%  
 autofit() %>%  
 width(j = 1:6, width = c(1, 1, 1.5, 2, 2, 1))  
  
#print the formatted table  
table\_buildings

List of Non-Residential Structures in Central Brooklyn

| Community District | House Number | Street Name | Address | Parcel Name | Agency |
| --- | --- | --- | --- | --- | --- |
| 302 | 300-24 | CADMAN PLAZA WEST | 300-24 CADMAN PLAZA WEST | FOREST CITY PIERREPOINT | DCAS |
| 302 | 121 | SCHERMERHORN STREET | 121 SCHERMERHORN STREET | LIVINGSTON PLAZA | DCAS |
| 309 | 1579 | BEDFORD AVENUE | 1579 BEDFORD AVENUE | BEDFORD-UNION ARMORY | DCAS |
| 306 | 299 | DEGRAW STREET | 299 DEGRAW STREET | FUTURE BROOKLYN PHILHARMONIC | HPD |
| 302 |  | FOOT OF ADAM ST | FOOT OF ADAM ST | RED HOOK WATER POLLUTION PLANT | DEP |

## Vacant Land

And now let’s do the same for all 170 vacant land areas:

#filter and rename columns  
filtered\_data\_land <- data\_central\_brooklyn %>%  
 filter(USE.TYPE == "NO USE-VACANT LAND") %>%  
 select(  
 `Community District` = CD,   
 `House Number` = HOUSE.NUMBER,   
 `Street Name` = STREET.NAME,   
 `Address` = ADDRESS,   
 `Parcel Name` = PARCEL.NAME,   
 `Agency` = AGENCY  
 )  
  
#create a formatted table  
table\_land <- flextable(filtered\_data\_land) %>%  
 set\_caption("List of Vacant Land Areas in Central Brooklyn") %>%  
 autofit() %>%  
 width(j = 1:6, width = c(1, 1, 1.5, 2, 2, 1))  
  
#print the formatted table  
table\_land

List of Vacant Land Areas in Central Brooklyn

| Community District | House Number | Street Name | Address | Parcel Name | Agency |
| --- | --- | --- | --- | --- | --- |
| 309 |  | FENIMORE STREET | FENIMORE STREET |  | DCAS |
| 303 | 1964 | FULTON STREET | 1964 FULTON STREET |  | HPD |
| 306 |  | CARROLL STREET | CARROLL STREET |  | DCAS |
| 303 |  | HALSEY STREET | HALSEY STREET |  | DCAS |
| 303 |  | FULTON STREET | FULTON STREET |  | HPD |
| 308 |  | PARK PLACE | PARK PLACE |  | DCAS |
| 303 | 706A | HANCOCK STREET | 706A HANCOCK STREET |  | DCAS |
| 302 | 7 | LAWRENCE STREET | 7 LAWRENCE STREET | TWO METROTECH CENTER URA | HPD |
| 308 |  | KINGSTON AVENUE | KINGSTON AVENUE |  | DCAS |
| 303 |  | MONROE STREET | MONROE STREET |  | DCAS |
| 308 | 1953 | UNION STREET | 1953 UNION STREET |  | DCAS |
| 303 | 2034 | FULTON STREET | 2034 FULTON STREET |  | HPD |
| 303 |  | RALPH AVENUE | RALPH AVENUE |  | DCAS |
| 303 | 1966 | FULTON STREET | 1966 FULTON STREET |  | HPD |
| 309 |  | UNION STREET | UNION STREET |  | DCAS |
| 303 | 784 | MYRTLE AVENUE | 784 MYRTLE AVENUE |  | HPD |
| 302 | 17 | BRIDGE PARK DRIVE | 17 BRIDGE PARK DRIVE |  | DSBS |
| 303 | 24 | ARLINGTON PLACE | 24 ARLINGTON PLACE |  | DCAS |
| 308 |  | BEDFORD AVENUE | BEDFORD AVENUE |  | DCAS |
| 303 |  | CHAUNCEY STREET | CHAUNCEY STREET |  | HPD |
| 308 | 1344 | EASTERN PARKWAY | 1344 EASTERN PARKWAY |  | DCAS |
| 303 |  | MYRTLE AVENUE | MYRTLE AVENUE |  | HPD |
| 309 |  | EMPIRE BOULEVARD | EMPIRE BOULEVARD |  | DCAS |
| 302 |  | HUDSON AVENUE | HUDSON AVENUE |  | DCAS |
| 309 |  | MONTGOMERY STREET | MONTGOMERY STREET |  | DCAS |
| 303 | 2042 | FULTON STREET | 2042 FULTON STREET |  | HPD |
| 306 |  | 7 STREET | 7 STREET |  | DCAS |
| 309 | 123 | CLARKSON AVENUE | 123 CLARKSON AVENUE |  | DCAS |
| 303 |  | CHAUNCEY STREET | CHAUNCEY STREET |  | HPD |
| 308 |  | STERLING PLACE | STERLING PLACE |  | DCAS |
| 302 |  | VANDERBILT AVENUE | VANDERBILT AVENUE |  | DCAS |
| 303 | 2012 | FULTON STREET | 2012 FULTON STREET |  | HPD |
| 303 |  | BAINBRIDGE STREET | BAINBRIDGE STREET |  | DCAS |
| 303 | 224 | SARATOGA AVENUE | 224 SARATOGA AVENUE |  | HPD |
| 303 | 1992 | FULTON STREET | 1992 FULTON STREET |  | HPD |
| 303 | 798 | MYRTLE AVENUE | 798 MYRTLE AVENUE |  | HPD |
| 308 |  | ROGERS AVENUE | ROGERS AVENUE |  | DCAS |
| 309 |  | CROWN STREET | CROWN STREET |  | DCAS |
| 306 |  | DEGRAW STREET | DEGRAW STREET |  | HPD |
| 306 |  | 9 STREET | 9 STREET |  | DCAS |
| 302 | 5 | METROTECH CENTER | 5 METROTECH CENTER | METRO TECH CENTER CONCOURSE | HPD |
| 306 | 941 | PRESIDENT STREET | 941 PRESIDENT STREET |  | DCAS |
| 303 | 792 | MYRTLE AVENUE | 792 MYRTLE AVENUE |  | HPD |
| 308 |  | DEAN STREET | DEAN STREET |  | DCAS |
| 303 | 800 | MYRTLE AVENUE | 800 MYRTLE AVENUE |  | HPD |
| 308 |  | BERGEN STREET | BERGEN STREET |  | DCAS |
| 309 | 319-00 | CROWN STREET | 319-00 CROWN STREET |  | DCAS |
| 303 | 681 | MARCY AVENUE | 681 MARCY AVENUE |  | DCAS |
| 303 | 908 | MADISON STREET | 908 MADISON STREET | FORMER LOTS FOR TOTS PLYGROUND | DCAS |
| 303 |  | HANCOCK STREET | HANCOCK STREET |  | DCAS |
| 308 |  | LINCOLN PLACE | LINCOLN PLACE |  | DCAS |
| 303 | 2036 | FULTON STREET | 2036 FULTON STREET |  | HPD |
| 303 | 2014 | FULTON STREET | 2014 FULTON STREET |  | HPD |
| 308 |  | STERLING PLACE | STERLING PLACE |  | DCAS |
| 306 |  | PROSPECT PARK WEST | PROSPECT PARK WEST |  | DCAS |
| 309 |  | CARROLL STREET | CARROLL STREET |  | DCAS |
| 302 |  | FULTON STREET | FULTON STREET |  | DCAS |
| 309 |  | UTICA AVENUE | UTICA AVENUE |  | DCAS |
| 309 |  | CHESTER COURT | CHESTER COURT |  | DCAS |
| 303 | 2040 | FULTON STREET | 2040 FULTON STREET |  | HPD |
| 306 | 155 | UNION STREET | 155 UNION STREET |  | HPD |
| 303 |  | CHAUNCEY STREET | CHAUNCEY STREET |  | DCAS |
| 308 |  | PROSPECT PLACE | PROSPECT PLACE |  | DCAS |
| 308 | 1101-17 | PARK PLACE | 1101-17 PARK PLACE |  | DCAS |
| 303 |  | MADISON STREET | MADISON STREET |  | DCAS |
| 303 | 2020-A | FULTON STREET | 2020-A FULTON STREET | SARATOGA SQUARE URA SITE#171 | HPD |
| 303 | 1962 | FULTON STREET | 1962 FULTON STREET |  | HPD |
| 309 |  | NOSTRAND AVENUE | NOSTRAND AVENUE |  | DCAS |
| 306 |  | UNION STREET | UNION STREET |  | DCAS |
| 308 |  | ST MARKS AVENUE | ST MARKS AVENUE |  | DCAS |
| 308 | 920-26 | PROSPECT PLACE | 920-26 PROSPECT PLACE |  | DCAS |
| 303 |  | BREVOORT PLACE | BREVOORT PLACE |  | DCAS |
| 303 |  | BAINBRIDGE STREET | BAINBRIDGE STREET |  | DCAS |
| 302 |  | EAST RIVER | EAST RIVER |  | DCAS |
| 308 |  | ALBANY AVENUE | ALBANY AVENUE |  | DCAS |
| 303 | 278 | PUTNAM AVENUE | 278 PUTNAM AVENUE |  | DCAS |
| 309 |  | PRESIDENT STREET | PRESIDENT STREET |  | DCAS |
| 306 |  | KANE STREET | KANE STREET |  | DCAS |
| 303 |  | MACON STREET | MACON STREET |  | DCAS |
| 308 |  | BERGEN STREET | BERGEN STREET |  | DCAS |
| 303 |  | PUTNAM AVENUE | PUTNAM AVENUE |  | HPD |
| 306 | 309 | COLUMBIA STREET | 309 COLUMBIA STREET |  | HPD |
| 306 | 164 | GARFIELD PLACE | 164 GARFIELD PLACE |  | DCAS |
| 303 | 2016 | FULTON STREET | 2016 FULTON STREET | SARATOGA SQUARE URA SITE#171 | HPD |
| 302 | 33 | QUINCY STREET | 33 QUINCY STREET |  | DCAS |
| 303 |  | GATES AVENUE | GATES AVENUE |  | DCAS |
| 303 |  | PUTNAM AVENUE | PUTNAM AVENUE |  | DCAS |
| 303 | 796 | MYRTLE AVENUE | 796 MYRTLE AVENUE |  | HPD |
| 302 |  | LEFFERTS PLACE | LEFFERTS PLACE |  | DCAS |
| 308 |  | LINCOLN PLACE | LINCOLN PLACE |  | DCAS |
| 306 |  | CARROLL STREET | CARROLL STREET |  | DCAS |
| 306 |  | 8 STREET | 8 STREET |  | DCAS |
| 308 |  | KINGSTON AVENUE | KINGSTON AVENUE |  | DCAS |
| 303 | 1988A | FULTON STREET | 1988A FULTON STREET |  | HPD |
| 303 | 794 | MYRTLE AVENUE | 794 MYRTLE AVENUE |  | HPD |
| 308 |  | PROSPECT PLACE | PROSPECT PLACE | PROSPECT ARMS APTS | HPD |
| 308 |  | KINGSTON AVENUE | KINGSTON AVENUE |  | DCAS |
| 308 | 603 | PARK PLACE | 603 PARK PLACE | PARK PL. STATION HOUSE | MTA |
| 303 | 1970 | FULTON STREET | 1970 FULTON STREET |  | HPD |
| 303 |  | LEXINGTON AVENUE | LEXINGTON AVENUE |  | DCAS |
| 306 | 890 | UNION STREET | 890 UNION STREET |  | DCAS |
| 308 |  | LINCOLN PLACE | LINCOLN PLACE |  | DCAS |
| 308 | 1124 | PROSPECT PLACE | 1124 PROSPECT PLACE |  | DCAS |
| 306 | 199 | COLUMBIA STREET | 199 COLUMBIA STREET |  | HPD |
| 302 |  | LEFFERTS PLACE | LEFFERTS PLACE |  | DCAS |
| 303 |  | BAINBRIDGE STREET | BAINBRIDGE STREET |  | DCAS |
| 303 |  | MONROE STREET | MONROE STREET |  | DCAS |
| 308 |  | DEAN STREET | DEAN STREET |  | DCAS |
| 303 | 2022 | FULTON STREET | 2022 FULTON STREET |  | HPD |
| 306 |  | PROSPECT PARK WEST | PROSPECT PARK WEST |  | DCAS |
| 303 |  | LOUIS PLACE | LOUIS PLACE |  | DCAS |
| 308 |  | UTICA AVENUE | UTICA AVENUE |  | DCAS |
| 303 |  | FULTON STREET | FULTON STREET |  | DCAS |
| 306 |  | PRESIDENT STREET | PRESIDENT STREET |  | DCAS |
| 306 | 307 | COLUMBIA STREET | 307 COLUMBIA STREET |  | HPD |
| 306 | 294 | COLUMBIA STREET | 294 COLUMBIA STREET |  | HPD |
| 303 |  | QUINCY STREET | QUINCY STREET |  | DCAS |
| 309 |  | RUTLAND ROAD | RUTLAND ROAD |  | DCAS |
| 308 | 926 | ST MARKS AVENUE | 926 ST MARKS AVENUE |  | DCAS |
| 303 | 966 | DEKALB AVENUE | 966 DEKALB AVENUE |  | HRA |
| 308 |  | LINCOLN PLACE | LINCOLN PLACE |  | DCAS |
| 308 |  | EASTERN PARKWAY | EASTERN PARKWAY |  | DCAS |
| 308 |  | ROGERS AVENUE | ROGERS AVENUE |  | DCAS |
| 303 | 910 | MADISON STREET | 910 MADISON STREET | FORMER LOTS FOR TOTS PLYGROUND | DCAS |
| 303 |  | CHAUNCEY STREET | CHAUNCEY STREET |  | HPD |
| 303 |  | PUTNAM AVENUE | PUTNAM AVENUE |  | DCAS |
| 308 |  | PROSPECT PLACE | PROSPECT PLACE |  | DCAS |
| 303 | 1968 | FULTON STREET | 1968 FULTON STREET |  | HPD |
| 308 |  | EASTERN PARKWAY | EASTERN PARKWAY |  | DCAS |
| 308 |  | ST JOHNS PLACE | ST JOHNS PLACE |  | DCAS |
| 308 |  | ST CHARLES PLACE | ST CHARLES PLACE |  | DCAS |
| 303 | 2020 | FULTON STREET | 2020 FULTON STREET |  | HPD |
| 303 | 2024 | FULTON STREET | 2024 FULTON STREET |  | HPD |
| 308 |  | DEAN STREET | DEAN STREET |  | DCAS |
| 306 |  | PRESIDENT STREET | PRESIDENT STREET |  | DCAS |
| 303 | 2026 | FULTON STREET | 2026 FULTON STREET |  | HPD |
| 303 | 786 | MYRTLE AVENUE | 786 MYRTLE AVENUE |  | HPD |
| 303 | 217 | HART STREET | 217 HART STREET |  | HRA |
| 303 |  | QUINCY STREET | QUINCY STREET |  | DCAS |
| 303 | 406 | NOSTRAND AVENUE | 406 NOSTRAND AVENUE |  | HPD |
| 308 |  | PROSPECT PLACE | PROSPECT PLACE |  | DCAS |
| 308 |  | UTICA AVENUE | UTICA AVENUE |  | DCAS |
| 303 | 2018 | FULTON STREET | 2018 FULTON STREET |  | HPD |
| 308 |  | ST MARKS AVENUE | ST MARKS AVENUE |  | DCAS |
| 308 |  | PROSPECT PLACE | PROSPECT PLACE | PROSPECT ARMS APTS | HPD |
| 303 | 2038 | FULTON STREET | 2038 FULTON STREET |  | HPD |
| 302 |  | VANDERBILT AVENUE | VANDERBILT AVENUE |  | DCAS |
| 308 |  | FLATBUSH AVENUE | FLATBUSH AVENUE |  | DCAS |
| 303 |  | MACON STREET | MACON STREET |  | DCAS |
| 303 | 494A | PUTNAM AVENUE | 494A PUTNAM AVENUE |  | DCAS |
| 309 |  | CARROLL STREET | CARROLL STREET |  | DCAS |
| 308 |  | ALBANY AVENUE | ALBANY AVENUE |  | DCAS |
| 309 |  | MONTGOMERY STREET | MONTGOMERY STREET |  | DCAS |
| 306 |  | CARROLL STREET | CARROLL STREET |  | DCAS |
| 309 |  | EASTERN PARKWAY | EASTERN PARKWAY |  | DCAS |
| 308 |  | ROGERS AVENUE | ROGERS AVENUE |  | DCAS |
| 303 | 53 | MC DOUGAL STREET | 53 MC DOUGAL STREET |  | HPD |
| 303 |  | MYRTLE AVENUE | MYRTLE AVENUE |  | HPD |
| 308 |  | LINCOLN PLACE | LINCOLN PLACE |  | DCAS |
| 303 | 1994 | FULTON STREET | 1994 FULTON STREET |  | HPD |
| 302 |  | IRVING PLACE | IRVING PLACE |  | DCAS |
| 303 |  | MARCY AVENUE | MARCY AVENUE |  | DCAS |
| 309 |  | CROWN STREET | CROWN STREET |  | DCAS |
| 303 |  | FULTON STREET | FULTON STREET |  | HPD |
| 306 |  | SUMMIT STREET | SUMMIT STREET |  | DCAS |
| 309 |  | TROY AVENUE | TROY AVENUE |  | DCAS |
| 303 |  |  |  |  | DCAS |
| 308 | 978 | ST MARKS AVENUE | 978 ST MARKS AVENUE |  | DCAS |
| 303 |  | FULTON STREET | FULTON STREET |  | HPD |
| 309 |  | MONTGOMERY STREET | MONTGOMERY STREET |  | DCAS |