DATA QUALITY REPORT

1. Dataset Description

Dataset Name: Property Valuation and Assessment Data

Dataset Source: Open data of NYC government

Dataset URL: https://data.cityofnewyork.us/Housing-Development/Property-Valuation-and-

Assessment-Data/rgy2-tti8
Time Period: November 2010

No. of Fields: 32

No. of Records: 1,070,994

2. Summary

2.a) Numerical

				# .				
Field	# records that have	%	# unique	records with				Standard
Name	a value	populated	values	value 0	Min	Max	Mean	Deviation
LTFRONT	1070994	100.0%	1297	169108	0	9999	36.63	74.03
LTDEPTH	1070994	100.0%	1370	170128	0	9999	88.86	76.39
STORIES	1014730	94.7%	112	0	1	119	5	8.36
FULLVAL	1070994	100.0%	109324	13007	0	6150000000	874264.5	11582430.9
AVLAND	1070994	100.0%	70921	13009	0	2668500000	85067.91	4057260.05
AVTOT	1070994	100.0%	112914	13007	0	4668308947	227238.16	6877529.3
EXLAND	1070994	100.0%	33419	491699	0	2668500000	36423.89	3981575.79
EXTOT	1070994	100.0%	64255	432572	0	4668308947	91186.98	6508402.81
BLDFRONT	1070994	100.0%	612	228815	0	7575	23.04	35.5
BLDDEPTH	1070994	100.0%	621	228853	0	9393	39.92	42.7
AVLAND2	282726	26.4%	58592	0	3	2371005000	246235.71	6178962.56
AVTOT2	282732	26.4%	111361	0	3	4501180002	713911.43	11652528.94
EXLAND2	87449	8.2%	22196	0	1	2371005000	351235.68	10802212.67
EXTOT2	130828	12.2%	48349	0	7	4501180002	656768.28	16072510.17

2.b) Categorical

Field Name	# records that have a value	% populated	# unique values	Most common value
RECORD	1070994	100.0%	1070994	NA
BBLE	1070994	100.0%	1070994	NA
В	1070994	100.0%	5	4
BLOCK	1070994	100.0%	13984	3944
LOT	1070994	100.0%	6366	1
EASEMENT	4636	0.4%	13	Е
OWNER	1039249	97.0%	863347	PARKCHESTER PRESERVAT
BLDGCL	1070994	100.0%	200	R4
TAXCLASS	1070994	100.0%	11	1
EXT	354305	33.1%	4	G
EXCD1	638488	59.6%	130	1017
STADDR	1070318	99.9%	839281	501 SURF AVENUE
ZIP	1041104	97.2%	197	10314
EXMPTCL	15579	1.5%	15	X1
EXCD2	92948	8.7%	61	1017
PERIOD	1070994	100.0%	1	FINAL
YEAR	1070994	100.0%	1	2010/11
VALTYPE	1070994	100.0%	1	AC-TR

3. DATA FIELD EXPLORATION

Field 1

Field Name: RECORD

Description: Unique integer for each record

Field 2

Field Name: BBLE

Description: Concatenation of Borough code, block code, unique number

Field 3

Field Name: B

Description: Borough Codes

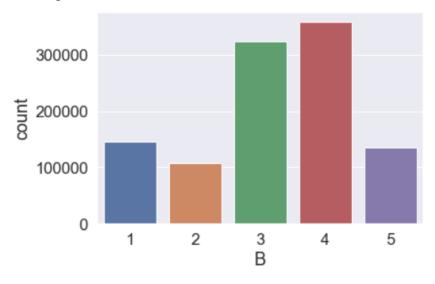


Fig. 1. Histogram plot showing distribution of field 'B'

Field Name: BLOCK

Description: Valid block ranges by borough codes

BLOCK	COUNT
3944	3838
16	3786
3943	3424
3938	2794
1171	2535
3937	2275
1833	1774
2450	1651
1047	1480
7279	1302
5893	1295
8720	1281
936	1151
1115	1090
1320	1049
1140	1017

Table 1. Top 15 Field Values

Field 5

Field Name: LOT

Description: Unique # Within Borough/Block

LOT	COUNT
1	24367
20	12294
15	12171
12	12143
14	12074
16	12042
17	11982
18	11979
25	11949
21	11840
23	11705
22	11665
6	11646
19	11640
30	11596

Table 2. Top 15 Field Values

Field Name: EASEMENT

Description: A field that is used to describe easement

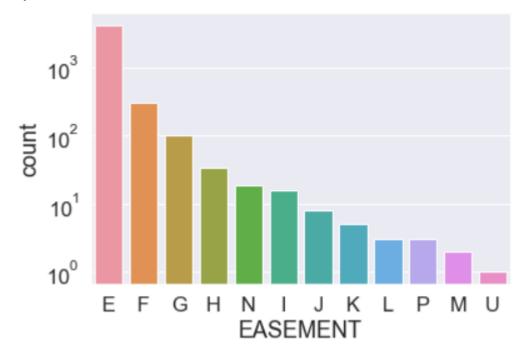


Fig. 2. Histogram plot showing distribution of field 'EASEMENT'

Field 7

Field Name: OWNER

Description: Owner's Name

OWNER	COUNT
PARKCHESTER PRESERVAT	6020
PARKS AND RECREATION	4255
DCAS	2169
HOUSING PRESERVATION	1904
CITY OF NEW YORK	1450
DEPT OF	1166
ENVIRONMENTAL	
BOARD OF EDUCATION	1015
NEW YORK CITY HOUSING	1014
CNY/NYCTA	975
NYC HOUSING	747
PARTNERSH	

Table 3. Top 10 Field Values

Field 8 Field Name: BLDGCL

Description: Building class where position 1 = ALPHA & position 2 = NUMERIC. There is a

direct correlation between the Building Class and the Tax Class.

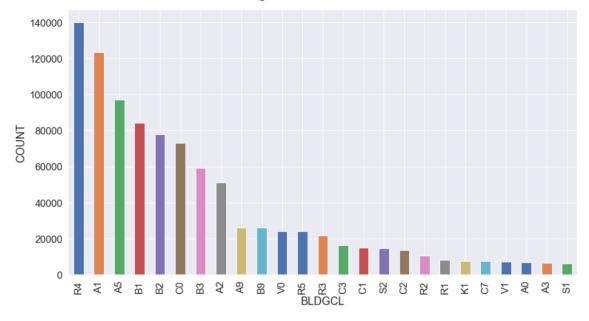


Fig. 3. Histogram plot showing distribution of field 'BLDGCL'

Field 9 Field Name: TAXCLASS

Description: Current Property Tax Class Code (NYS Classification)

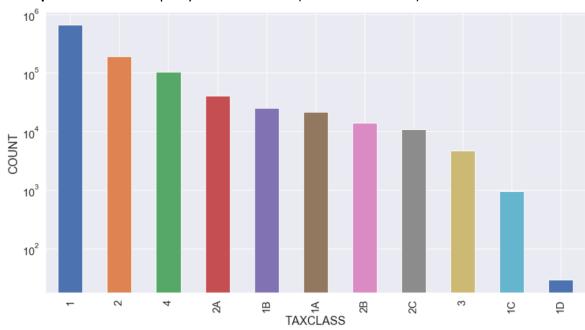


Fig. 4. Histogram plot showing distribution of field 'TAXCLASS'

Field Name: LTFRONT

Description: Lot Frontage in feet

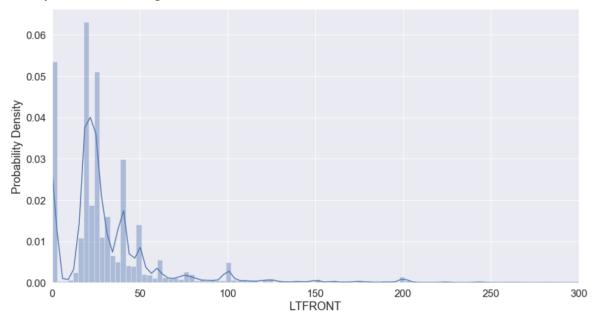


Fig. 5. Kernel Density Distribution plot showing distribution of field 'LTFRONT' (Outliers > 300 removed)

Field 11

Field Name: LTDEPTH

Description: Lot Depth in feet

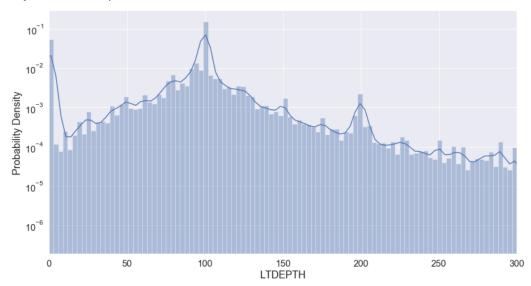


Fig. 6. Kernel Density Distribution plot showing distribution of field 'LTDEPTH'

(Outliers > 300 removed)

Field 12
Field Name: EXT

Description: E-Extension, G- Garage, EG- Extension and Garage

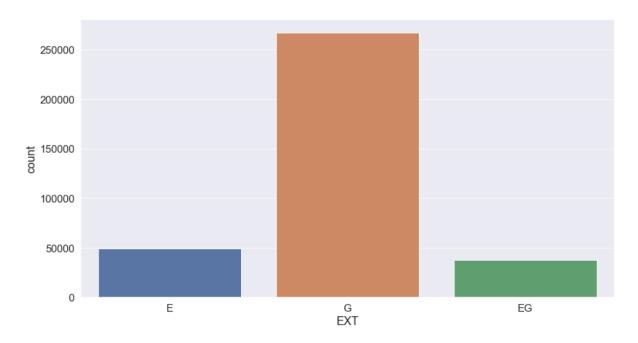


Fig. 7. Histogram plot showing distribution of field 'EXT'

Field 13
Field Name: STORIES

Description: Number of floors in the building

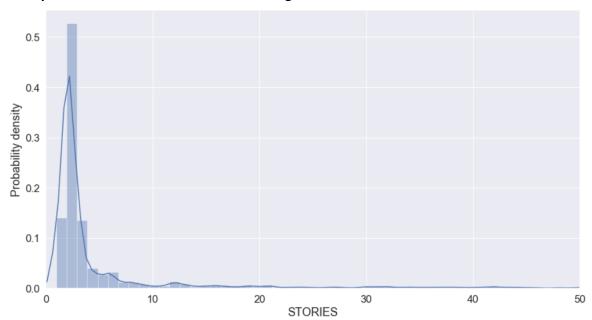


Fig. 8. Kernel Density Distribution plot showing distribution of field 'STORIES'

(Outliers > 50 removed)

Field Name: FULLVAL

Description: Total Market Value

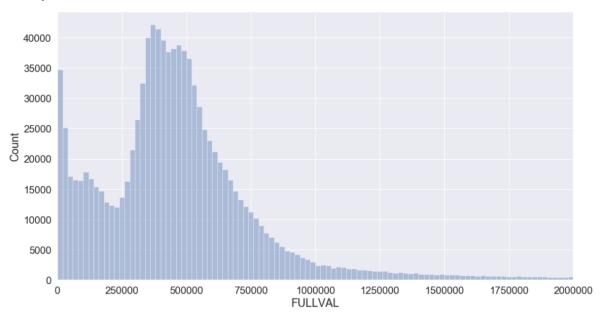


Fig. 9. Distribution plot showing distribution of field 'FULLVAL'

(Outliers > 2000000 removed)

Field 15

Field Name: AVLAND

Description: Market value of land

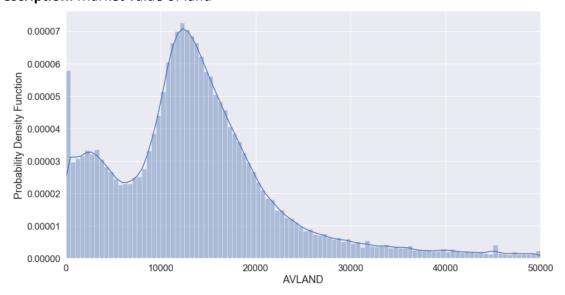


Fig. 10. Kernel Density Distribution plot showing distribution of field 'AVLAND'

(Outliers > 50000 removed)

Field Name: AVTOT

Description: Total market value

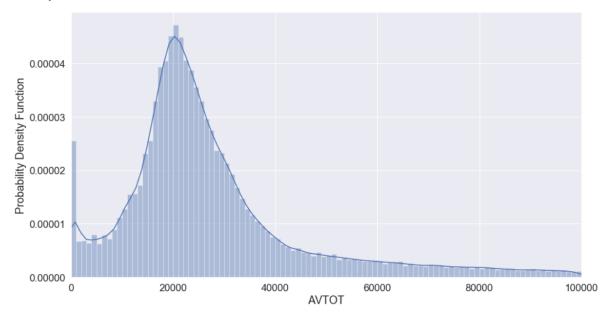


Fig. 11. Kernel Density Distribution plot showing distribution of field 'AVTOT'

(Outliers > 100,000 removed)

Field 17

Field Name: EXLAND

Description: Tentative transitional exempt land value

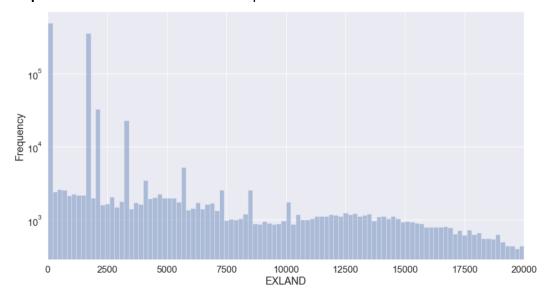


Fig. 12. Distribution plot showing distribution of field 'EXLAND'

(Outliers > 20,000 removed)

Field Name: EXTOT

Description: Tentative transitional exempt total value

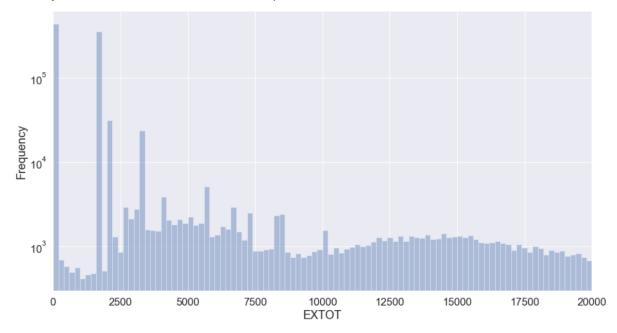


Fig. 13. Distribution plot showing distribution of field 'EXTOT'

(Outliers > 20,000 removed)

Field 19

Field Name: EXCD1

Description:

EXCD1	COUNT
1017	425348
1010	49756
1015	31323
5113	23858
1920	17594
5110	16834
5114	14984
5111	10609
1021	6613
1986	4231

Table 4. Top 10 Field Values

Field Name: STADDR

Description: Street name of property

STREET ADDRESS	COUNT
501 SURF AVENUE	902
330 EAST 38 STREET	817
322 WEST 57 STREET	720
155 WEST 68 STREET	671
20 WEST 64 STREET	657
1 IRVING PLACE	650
628	
599	
585	
562	

Table 5. Top 10 Field Values

Field 21

Field Name: ZIP

Description: Postal ZIP code of the property

ZIP	COUNT
10314	24606
11234	20001
10312	18127
10462	16905
10306	16578
11236	15678
11385	14921
11229	12793
11211	12710
11207	12293

Table 6. Top 10 Field Values

Field 22
Field Name: EXMPTCL

Description: Exempt class used for fully exempt properties only

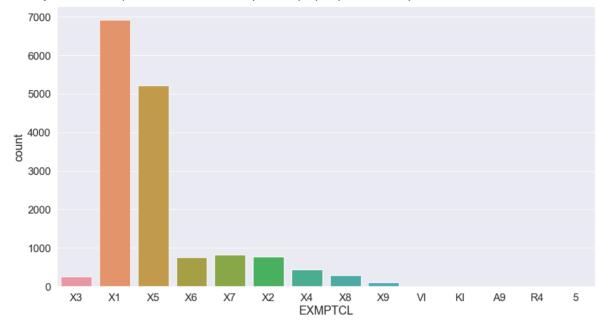


Fig. 14. Histogram plot showing distribution of field 'EXMPTCL'

Field 23
Field Name: BLDFRONT

Description: Building frontage in feet

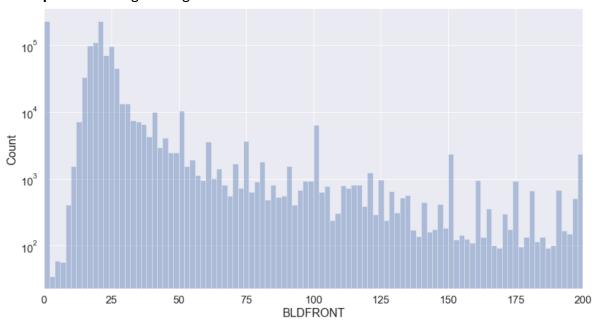


Fig. 15. Distribution plot showing distribution of field 'BLDFRONT'

(Outliers > 200 removed)

Field 24

Field Name: BLDDEPTH

Description: Lot depth in feet

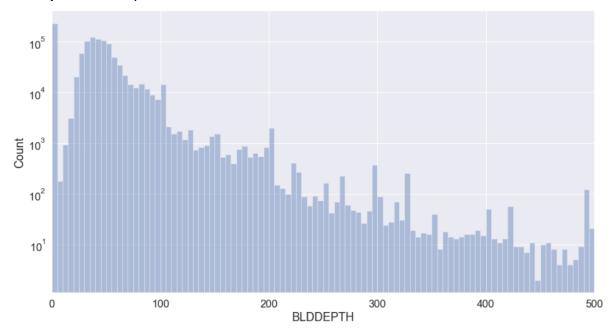


Fig. 16. Distribution plot showing distribution of field 'BLDDEPTH'

(Outliers > 500 removed)

Field 25

Field Name: AVLAND2

Description: New market value of land

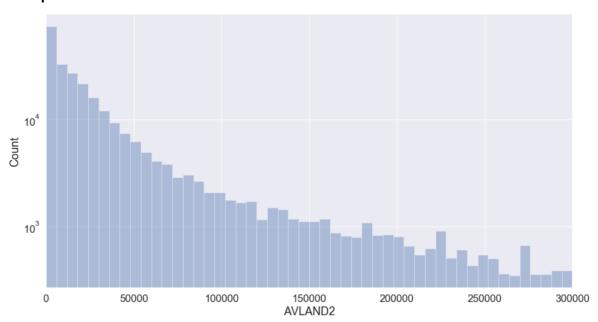


Fig. 17. Histogram plot showing distribution of field 'AVLAND2'

(Outliers > 300,000 removed)

Field 26

Field Name: AVTOT2

Description: New total market value

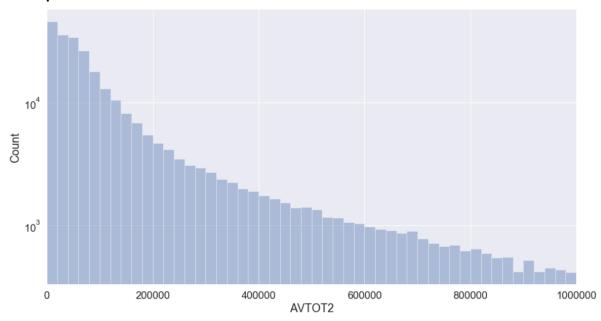


Fig. 18. Histogram plot showing distribution of field 'AVTOT2'

(Outliers > 10,000,000 removed)

Field 27

Field Name: EXLAND2

Description: New Tentative transitional exempt land value

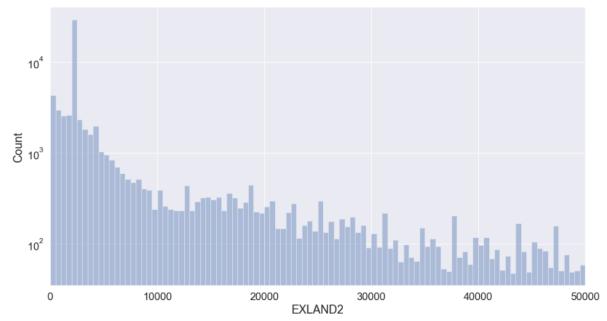


Fig. 19. Histogram plot showing distribution of field 'EXLAND2'

Field Name: EXTOT2

Description: New Tentative transitional exempt total value

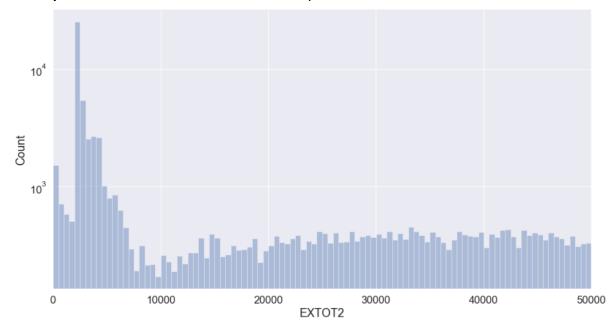


Fig. 20. Distribution plot showing distribution of field 'EXTOT2'

(Outliers > 50,000 removed)

Field 29

Field Name: EXCD2

Description:

EXCD2	COUNT
1017	65777
1015	12337
5112	6867
1019	3178
1920	2961
1200	881
1101	494
5129	227
1986	35
1022	31

Table 7. Top 10 Field Values

Field Name: Period

Description: Final - (Only one unique value)

Field 31

Field Name: Year

Description: Four-digit year of the file (2010/11) - (Only one unique value)

Field 32

Field Name: Valtype

Description: AC-TR (Only one unique value)