

# Georgia and Louisiana TABBLOCK20 File Problems

```
In [8]: import geopandas as gp
import os

print('working dir: {}'.format(os.getcwd()))

tiger_2020_dir = r'D:\dev\postgis_2020_staging'
tiger_2022_dir = r'D:\dev\postgis_2022_staging'
tiger_2023_dir = r'D:\dev\postgis_2023_staging'
```

working dir: D:\dev\git\geocoding\geocoding\postgis\_setup\scripts

## 2020 TABBLOCK20 Columns

See below,

- GA and LA are both missing column **UATYPE20**
- GA and LA both have unexpected column **GEOIDFQ20**

```
In [7]: # georgia types
ga_2020_tb_df = gp.read_file(os.path.join(tiger_2020_dir, r'www2.census.gov\geo\tiger\TIGER2020\TABBLOCK20\tl_20
print ('STATEFIPS 13, TABBLOCK20, DTYPES:\n{}'.format(ga_2020_tb_df.dtypes.sort_index()))
# louisiana types
la_2020_tb_df = gp.read_file(os.path.join(tiger_2020_dir, r'www2.census.gov\geo\tiger\TIGER2020\TABBLOCK20\tl_20
print ('STATEFIPS 22, TABBLOCK20, DTYPES:\n{}'.format(la_2020_tb_df.dtypes.sort_index()))
# michigan types
mi_2020_tb_df = gp.read_file(os.path.join(tiger_2020_dir, r'www2.census.gov\geo\tiger\TIGER2020\TABBLOCK20\tl_20
print ('STATEFIPS 26, TABBLOCK20, DTYPES:\n{}'.format(mi_2020_tb_df.dtypes.sort_index()))
```

```
STATEFIPS 13, TABBLOCK20, DTYPES:
```

```
ALAND20      int64
AWATER20     int64
BLOCKCE20    object
COUNTYFP20  object
FUNCSTAT20   object
GEOID20      object
GEOIDFQ20    object
HOUSING20    int64
INTPTLAT20   object
INTPTLON20   object
MTFCC20      object
NAME20       object
POP20        int64
STATEFP20    object
TRACTCE20    object
UACE20       object
UR20         object
geometry     geometry
```

```
dtype: object
```

```
STATEFIPS 22, TABBLOCK20, DTYPES:
```

```
ALAND20      int64
AWATER20     int64
BLOCKCE20    object
COUNTYFP20  object
FUNCSTAT20   object
GEOID20      object
GEOIDFQ20    object
HOUSING20    int64
INTPTLAT20   object
INTPTLON20   object
MTFCC20      object
NAME20       object
POP20        int64
STATEFP20    object
TRACTCE20    object
UACE20       object
UR20         object
VINTAGE      object
geometry     geometry
```

```
dtype: object
```

```
STATEFIPS 26, TABBLOCK20, DTYPES:
```

```
ALAND20      int64
AWATER20     int64
BLOCKCE20    object
COUNTYFP20  object
FUNCSTAT20   object
GEOID20      object
HOUSING20    int64
INTPTLAT20   object
INTPTLON20   object
MTFCC20      object
NAME20       object
POP20        int64
STATEFP20    object
TRACTCE20    object
UACE20       object
UATYPE20     object
UR20         object
geometry     geometry
```

```
dtype: object
```

## 2022 TABBLOCK20 Columns

Year 2022 has the same problem for LA and GA.

```
In [10]: # georgia types
ga_2020_tb_df = gp.read_file(os.path.join(tiger_2022_dir, r'www2.census.gov\geo\tiger\TIGER2022\TABBLOCK20\tl_20
print ('STATEFIPS 13, TABBLOCK20, DTYPES:\n{}'.format(ga_2020_tb_df.dtypes.sort_index()))
# louisiana types
la_2020_tb_df = gp.read_file(os.path.join(tiger_2022_dir, r'www2.census.gov\geo\tiger\TIGER2022\TABBLOCK20\tl_20
print ('STATEFIPS 22, TABBLOCK20, DTYPES:\n{}'.format(la_2020_tb_df.dtypes.sort_index()))
# michigan types
mi_2020_tb_df = gp.read_file(os.path.join(tiger_2022_dir, r'www2.census.gov\geo\tiger\TIGER2022\TABBLOCK20\tl_20
print ('STATEFIPS 26, TABBLOCK20, DTYPES:\n{}'.format(mi_2020_tb_df.dtypes.sort_index()))
```

```
STATEFIPS 13, TABBLOCK20, DTYPES:
```

```
ALAND20      int64
AWATER20     int64
BLOCKCE20    object
COUNTYFP20  object
FUNCSTAT20   object
GEOID20      object
GEOIDFQ20    object
HOUSING20    int64
INTPTLAT20   object
INTPTLON20   object
MTFCC20      object
NAME20       object
POP20        int64
STATEFP20    object
TRACTCE20    object
UACE20       object
UR20         object
geometry     geometry
dtype: object
```

```
STATEFIPS 22, TABBLOCK20, DTYPES:
```

```
ALAND20      int64
AWATER20     int64
BLOCKCE20    object
COUNTYFP20  object
FUNCSTAT20   object
GEOID20      object
GEOIDFQ20    object
HOUSING20    int64
INTPTLAT20   object
INTPTLON20   object
MTFCC20      object
NAME20       object
POP20        int64
STATEFP20    object
TRACTCE20    object
UACE20       object
UR20         object
geometry     geometry
dtype: object
```

```
STATEFIPS 26, TABBLOCK20, DTYPES:
```

```
ALAND20      int64
AWATER20     int64
BLOCKCE20    object
COUNTYFP20  object
FUNCSTAT20   object
GEOID20      object
HOUSING20    int64
INTPTLAT20   object
INTPTLON20   object
MTFCC20      object
NAME20       object
POP20        int64
STATEFP20    object
TRACTCE20    object
UACE20       object
UATYPE20     object
UR20         object
geometry     geometry
dtype: object
```

## 2023 TABBLOCK20 Columns

We see the same problem with GA and LA files again in 2023

```
In [11]: # georgia types
ga_2020_tb_df = gp.read_file(os.path.join(tiger_2023_dir, r'www2.census.gov\geo\tiger\TIGER2023\TABBLOCK20\tl_2
print ('STATEFIPS 13, TABBLOCK20, DTYPES:\n{}'.format(ga_2020_tb_df.dtypes.sort_index()))
# louisiana types
la_2020_tb_df = gp.read_file(os.path.join(tiger_2023_dir, r'www2.census.gov\geo\tiger\TIGER2023\TABBLOCK20\tl_2
print ('STATEFIPS 22, TABBLOCK20, DTYPES:\n{}'.format(la_2020_tb_df.dtypes.sort_index()))
# michigan types
mi_2020_tb_df = gp.read_file(os.path.join(tiger_2023_dir, r'www2.census.gov\geo\tiger\TIGER2023\TABBLOCK20\tl_2
print ('STATEFIPS 26, TABBLOCK20, DTYPES:\n{}'.format(mi_2020_tb_df.dtypes.sort_index()))
```

STATEFIPS 13, TABBLOCK20, DTYPES:

ALAND20 int64  
AWATER20 int64  
BLOCKCE20 object  
COUNTYFP20 object  
FUNCSTAT20 object  
GEOID20 object  
GEOIDFQ20 object  
HOUSING20 int64  
INTPTLAT20 object  
INTPTLON20 object  
MTFCC20 object  
NAME20 object  
POP20 int64  
STATEFP20 object  
TRACTCE20 object  
UACE20 object  
UR20 object  
geometry geometry  
dtype: object

STATEFIPS 22, TABBLOCK20, DTYPES:

ALAND20 int64  
AWATER20 int64  
BLOCKCE20 object  
COUNTYFP20 object  
FUNCSTAT20 object  
GEOID20 object  
GEOIDFQ20 object  
HOUSING20 int64  
INTPTLAT20 object  
INTPTLON20 object  
MTFCC20 object  
NAME20 object  
POP20 int64  
STATEFP20 object  
TRACTCE20 object  
UACE20 object  
UR20 object  
geometry geometry  
dtype: object

STATEFIPS 26, TABBLOCK20, DTYPES:

ALAND20 int64  
AWATER20 int64  
BLOCKCE20 object  
COUNTYFP20 object  
FUNCSTAT20 object  
GEOID20 object  
GEOIDFQ20 object  
HOUSING20 int64  
INTPTLAT20 object  
INTPTLON20 object  
MTFCC20 object  
NAME20 object  
POP20 int64  
STATEFP20 object  
TRACTCE20 object  
UACE20 object  
UR20 object  
geometry geometry  
dtype: object

In [ ]:

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