

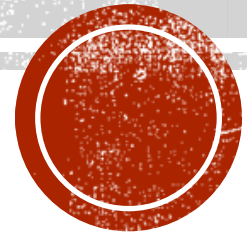
HIGH-RESOLUTION STATEWIDE SOCIO-DEMOGRAPHIC, LAND USE AND ECONOMIC DEVELOPMENT FRAMEWORK FOR TRANSPORTATION PLANNING – DATA WEBINAR, PART 2

LAUREN HOOVER

Ph.D. Student

Civil, Environmental and Construction Engineering

University of Central Florida





DATA PRODUCTS











VARIABLE FORECASTS







- The research team has completed future data generation using the proposed framework
- Future forecasts are provided in two data formats: .CSV and shapefile
- The data are submitted through 3 different folders:
 - 📁 GIS Layers
 - 📁 Parcel Files
 - 📁 Aggregated Files
- GIS layers and parcel files contain parcel level land use forecasts from 2025 to 2050
- Aggregated data folder consists of block group, census tract and county level sociodemographic, land use and economic development variable forecasts

VARIABLE FORECASTS







- GIS Layer folder consist of 402 county shape files (67 county files per year)

-  alachua_2020pin
-  baker_2020pin
-  bay_2020pin
-  bradford_2020pin
-  brevard_2020pin
-  broward_2020pin
-  calhoun_2020pin
-  charlotte_2020pin

- Parcel folder consists 6 data files for the entire State (1 per year)

-  Parcel 2025
-  Parcel 2030
-  Parcel 2035
-  Parcel 2040
-  Parcel 2045
-  Parcel 2050

- Aggregate folder consists of 18 files for the entire State (3 resolutions per year)

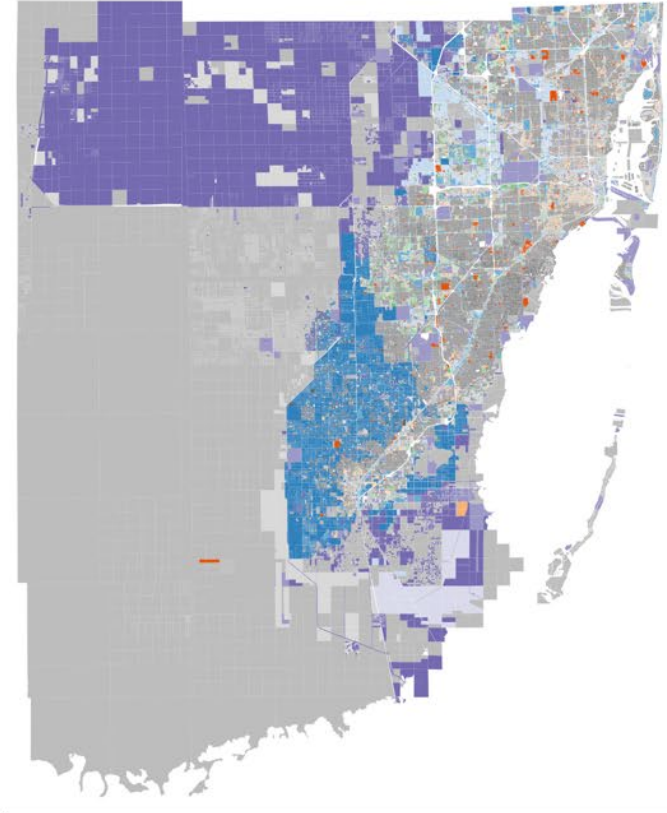
-  Block Group 2025
-  Block Group 2030
-  Block Group 2035
-  Block Group 2040
-  Block Group 2045
-  Block Group 2050

PARCEL DATA SAMPLE

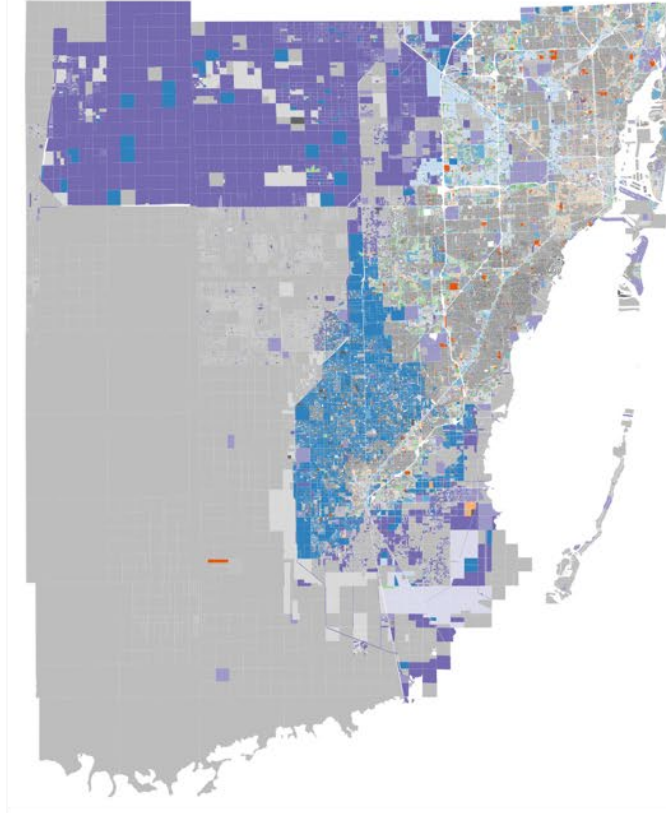
	A	B	C	D	E	F	G	H
1	Par_uniq	PARCELNCx	y	Landuse	BG.ID	Parcel_Area	Rank	
2	1.12E+11	07702-000	-82.2898	29.80339	Agricultur	1.2E+11	1512003.2	1
3	1.12E+11	03206-000	-82.4824	29.79493	Others	1.2E+11	1070755.7	1
4	1.12E+11	03956-010	-82.4731	29.78104	Industrial	1.2E+11	255474.0	1
5	1.12E+11	03956-010	-82.4738	29.77931	Industrial	1.2E+11	358128.7	1
6	1.12E+11	05608-001	-82.4535	29.84439	VResident	1.2E+11	31477.4	1
7	1.12E+11	16979-000	-82.1648	29.80905	Others	1.2E+11	87119.0	1
8	1.12E+11	03956-010	-82.474	29.78083	VCommer	1.2E+11	44032.1	1
9	1.12E+11	17125-000	-82.1805	29.79086	VResident	1.2E+11	43904.3	1
10	1.12E+11	17125-001	-82.1811	29.79048	SingleFam	1.2E+11	165158.3	1
11	1.12E+11	05900-226	-82.417	29.75963	OtherResi	1.2E+11	13348.1	1
12	1.12E+11	05900-221	-82.4177	29.75855	OtherResi	1.2E+11	24975.1	1
13	1.12E+11	16972-029	-82.1738	29.81743	MultiFami	1.2E+11	143551.4	1
14	1.12E+11	05899-001	-82.4144	29.7671	VCommer	1.2E+11	108754.8	1
15	1.12E+11	17549-005	-82.2378	29.75059	SingleFam	1.2E+11	365818.9	1
16	1.12E+11	16979-001	-82.1655	29.80623	Agricultur	1.2E+11	386318.9	1
17	1.12E+11	05506-000	-82.4006	29.84741	Agricultur	1.2E+11	220222.0	1
18	1.12E+11	01636-006	-82.5889	29.77286	Agricultur	1.2E+11	412940.4	1
19	1.12E+11	01636-000	-82.5874	29.77201	Agricultur	1.2E+11	377262.2	1
20	1.12E+11	05949-005	-82.4377	29.76882	Agricultur	1.2E+11	4750499.2	1

Parcel Level Land Use Forecast for 2025

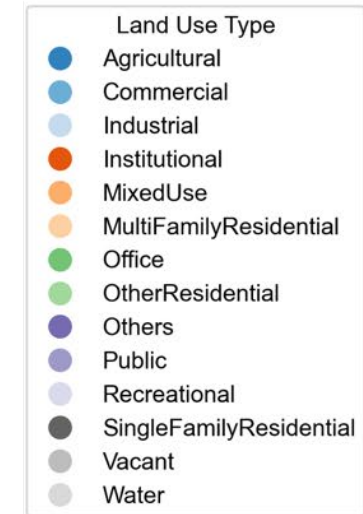
PARCEL DATA SAMPLE



Miami-Dade 2020



Miami-Dade 2025



Parcel Level Land Use Forecast for 2025

BLOCK GROUP DATA SAMPLE

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	BG.ID	BG.Agri	BG.AllV	BG.Con	BG.Indu	BG.Inst	BG.Mix	BG.Mul	BG.Offi	BG.Oth	BG.Oth	BG.Pub	BG.Rec	BG.Sing	BG.Wat	BG.Lanc
2	120010002011	0.00	18.97	5.79	0.01	7.84	1.11	7.42	1.52	2.25	2.93	7.35	0.49	44.32	0.00	0.71
3	120010002012	0.00	12.51	6.54	0.69	0.85	0.52	14.44	11.35	2.15	0.43	12.62	0.35	37.55	0.00	0.73
4	120010002013	0.00	7.08	32.45	0.46	0.71	3.94	18.59	14.44	3.27	3.04	4.90	0.05	11.08	0.00	0.78
5	120010002014	0.00	7.40	11.13	0.00	19.26	3.70	49.37	2.60	3.01	2.54	0.00	0.00	0.99	0.00	0.71
6	120010002021	0.00	18.88	5.36	0.72	6.99	1.89	12.41	8.31	8.03	7.31	7.47	0.17	22.38	0.08	0.85
7	120010002022	0.00	10.30	0.22	0.00	32.99	0.00	39.13	3.48	6.07	0.33	0.53	0.17	6.79	0.00	0.65
8	120010002023	0.12	13.42	0.00	0.00	25.98	0.00	23.00	0.00	17.95	0.00	0.85	0.00	18.67	0.00	0.84
9	120010003011	0.00	9.22	14.72	3.11	1.57	0.43	21.66	7.86	4.85	0.17	10.11	0.57	25.71	0.01	0.78
10	120010003012	0.02	8.42	18.34	4.01	3.58	1.68	8.17	12.15	3.26	1.78	1.53	0.37	36.66	0.05	0.73
11	120010003021	0.00	11.13	22.14	30.34	3.14	0.12	1.77	1.05	1.37	0.73	13.08	0.11	15.02	0.00	0.74
12	120010003022	0.00	11.51	17.06	7.39	1.64	2.56	13.21	5.62	5.39	0.11	0.51	0.41	34.58	0.00	0.77
13	120010003023	0.03	11.11	21.39	0.00	5.52	0.00	6.59	6.42	2.98	0.11	0.48	0.34	45.02	0.00	0.67
14	120010004001	0.00	50.96	4.85	20.48	2.78	0.00	3.64	1.07	2.47	0.80	1.83	0.00	11.12	0.00	0.66
15	120010004002	0.15	5.18	1.37	2.58	2.97	0.83	2.00	0.19	0.63	0.59	20.61	0.07	62.82	0.02	0.47
16	120010004003	1.87	2.84	13.62	0.30	11.75	0.02	2.46	8.08	1.39	0.12	15.20	0.33	42.02	0.00	0.68
17	120010004004	15.48	7.91	22.93	0.22	4.16	0.00	3.73	0.32	1.03	2.10	8.44	0.15	33.53	0.00	0.74
18	120010005001	0.14	11.04	14.03	5.77	5.26	1.46	11.90	11.72	5.32	1.27	18.63	0.57	12.88	0.00	0.87
19	120010005002	0.00	0.68	10.38	1.54	4.33	0.20	3.46	2.07	0.23	0.24	27.33	0.50	49.05	0.00	0.58
20	120010005003	0.00	5.04	0.60	0.00	2.87	0.00	1.83	0.00	0.86	1.11	16.34	0.00	71.18	0.16	0.45

Land Use Variable Forecast for 2025

BLOCK GROUP DATA SAMPLE

	A	B	C	D	E	F	G	H
1	BG.ID	BG.Popula	BG.Pop_d	BG.Hispar	BG.White	BG.Black_	BG.Asian	BG.Other_
2	120010002011	863.22	8.80	16.05	69.71	8.87	2.10	3.27
3	120010002012	1239.64	13.50	10.40	80.24	5.29	1.66	2.41
4	120010002013	1086.21	11.48	7.90	84.51	4.14	1.42	2.03
5	120010002014	1215.63	56.50	8.74	83.04	4.54	1.51	2.17
6	120010002021	1079.55	10.19	10.97	78.52	6.59	1.36	2.56
7	120010002022	1149.88	18.13	8.28	83.59	4.90	1.16	2.07
8	120010002023	2281.55	53.66	7.68	84.72	4.54	1.11	1.96
9	120010003011	2171.00	7.08	11.25	77.25	7.25	1.57	2.69
10	120010003012	2592.54	8.32	10.28	79.19	6.53	1.49	2.51
11	120010003021	581.17	1.36	11.87	74.77	8.84	1.61	2.91
12	120010003022	993.31	5.04	13.56	19.29	63.05	1.17	2.94
13	120010003023	1060.20	3.29	9.73	79.61	6.75	1.44	2.48
14	120010004001	1259.45	2.57	3.96	4.26	90.47	0.35	0.96
15	120010004002	791.25	3.74	10.05	12.53	74.31	0.88	2.23
16	120010004003	1621.98	6.39	9.75	80.04	6.30	1.48	2.43
17	120010004004	2981.65	5.58	5.09	5.59	87.66	0.45	1.21
18	120010005001	1522.65	4.45	8.86	82.06	5.29	1.51	2.28
19	120010005002	753.06	4.22	14.15	71.14	9.52	1.95	3.24
20	120010005003	926.37	5.04	7.55	84.61	4.48	1.35	2.01

Sociodemographic Variable Forecast for 2025

CENSUS TRACT DATA SAMPLE

	A	B	C	D	E	F	G	H	I
1	CT.ID	CT.HH	CT.HH_der	CT.No_veh	CT.Veh1	CT.Veh2	CT.Veh3pl	CT.Income	CT.INC2
2	12001000201	1643.54	5.37	7.62	47.52	35.05	9.81	52127.49	52.13
3	12001000202	1683.20	7.94	23.92	53.42	18.82	3.84	12472.03	12.47
4	12001000301	1777.44	2.88	12.95	52.95	27.71	6.39	38908.46	38.91
5	12001000302	983.09	1.04	10.11	49.23	31.78	8.88	39548.60	39.55
6	12001000400	2482.96	1.67	10.66	51.29	30.52	7.53	44441.99	44.44
7	12001000500	2045.14	2.11	8.56	49.79	33.25	8.40	53343.22	53.34
8	12001000600	2238.24	1.18	18.67	54.58	22.22	4.54	26934.70	26.93
9	12001000700	2875.51	0.51	6.13	40.81	38.15	14.91	40948.73	40.95
10	12001000806	1190.81	5.07	19.79	54.53	21.37	4.31	24050.37	24.05
11	12001000808	1393.31	2.00	8.02	45.04	35.11	11.83	38565.84	38.57
12	12001001000	2851.70	2.04	4.47	35.43	40.78	19.31	41476.07	41.48
13	12001001100	2724.21	1.41	2.29	35.46	46.83	15.43	93067.41	93.07
14	12001001202	3386.41	2.33	2.73	34.32	45.16	17.79	73842.37	73.84
15	12001001400	2014.51	0.37	2.82	30.11	43.72	23.35	51738.17	51.74
16	12001001514	768.84	1.91	14.17	52.30	26.93	6.60	30847.40	30.85
17	12001001515	2200.13	5.72	19.18	53.97	22.12	4.72	22774.04	22.77
18	12001001516	1003.86	7.74	17.01	53.05	24.27	5.67	23954.80	23.95
19	12001001517	2205.32	5.91	12.55	50.52	29.02	7.91	30462.58	30.46
20	12001001522	2783.95	2.52	16.39	53.53	24.54	5.53	28153.01	28.15

Sociodemographic and Economic Development Variable Forecast for 2025

COUNTY DATA SAMPLE

	A	R	S	T	U
1	CNTY.ID	CNTY.Jobs	CNTY.Job_densi	CNTY.business	CNTY.busns_dei
2	1	199940.8171	0.32246617	15523.35545	0.025036193
3	3	19244.11914	0.051053511	1494.108638	0.003963782
4	5	127444.785	0.135767349	9894.781501	0.010540943
5	7	18529.07137	0.096348138	1438.592506	0.007480446
6	9	437396.8163	0.438932546	33959.38034	0.034078614
7	11	1340306.404	1.600695563	104061.0568	0.124277607
8	13	9288.617329	0.02527102	721.1659458	0.001962036
9	15	139837.0872	0.230666749	10856.91677	0.017908909
10	17	110618.1661	0.179903915	8588.366982	0.013967695
11	19	158069.4705	0.383787316	12272.47449	0.029797152
12	21	273622.2982	0.164112193	21243.96737	0.01274163
13	23	48966.30011	0.09548014	3801.731397	0.007413054
14	27	23620.90266	0.057749032	1833.921024	0.004483621
15	29	11680.19333	0.017491318	906.8473133	0.001358022
16	31	718708.9047	1.222677389	55800.38112	0.094928369
17	33	226451.2205	0.314317593	17581.6166	0.02440354
18	35	90251.77294	0.24704205	7007.125269	0.019180284
19	37	8793.300663	0.009664819	682.7096828	0.000750374
20	39	29924.25338	0.088465969	2323.311611	0.006868476

Economic Development Variable Forecast for 2025



HOW CAN THE DATA PRODUCTS BE USED?



USE CASE 1: TRAVEL DEMAND MODELS

Direct consideration in travel demand models as land use variables at different spatial resolutions (BG, CT and county)

- Every urban/rural jurisdiction in Florida can readily use the data developed for
 - Running travel demand models with a universal template of variables
 - Jurisdictions can examine future growth generators and types of land use changes
 - Explore opportunities to influence patterns to grow their revenue (from tax and business)

Variables used in trip-based and activity-based models (at the zonal level)

Income

Population

Vehicle
Ownership

Employment

USE CASE 1: TRAVEL DEMAND MODELS

Table 3.1 Trip Production Rates

Home-Based Work						
Dwelling Unit Type	Number of Automobiles Available	1	2	3	4	5+
Single Family	0	0.35	0.64	1.01	1.5	2.08
	1	0.69	0.98	1.35	1.84	2.42
	2	1.35	1.64	2.01	2.5	3.08
	3+	1.76	2.05	2.42	2.9	3.49
Multifamily	0	0.41	0.7	1.01	1.31	1.62
	1	0.95	1.49	2.02	2.56	3.1
	2	1.65	2.3	2.95	3.6	4.25
	3+	2.21	2.89	3.59	4.27	4.96
Hotel/Motel		1.04	0.72	0.5	0.39	0.39

Metropolitan Transportation Planning Organization
for the Gainesville Urbanized Area
Gainesville Urbanized Area Transportation Study



Year 2045 Long-Range Transportation Plan Update
Technical Report 4: 2015 Model Update and Validation

USE CASE 1: TRAVEL DEMAND MODELS

Census Tract 2.01, Alachua, FL

Census Tract in: [Gainesville, FL](#), [Alachua County, FL](#), [Florida](#), [United States](#)

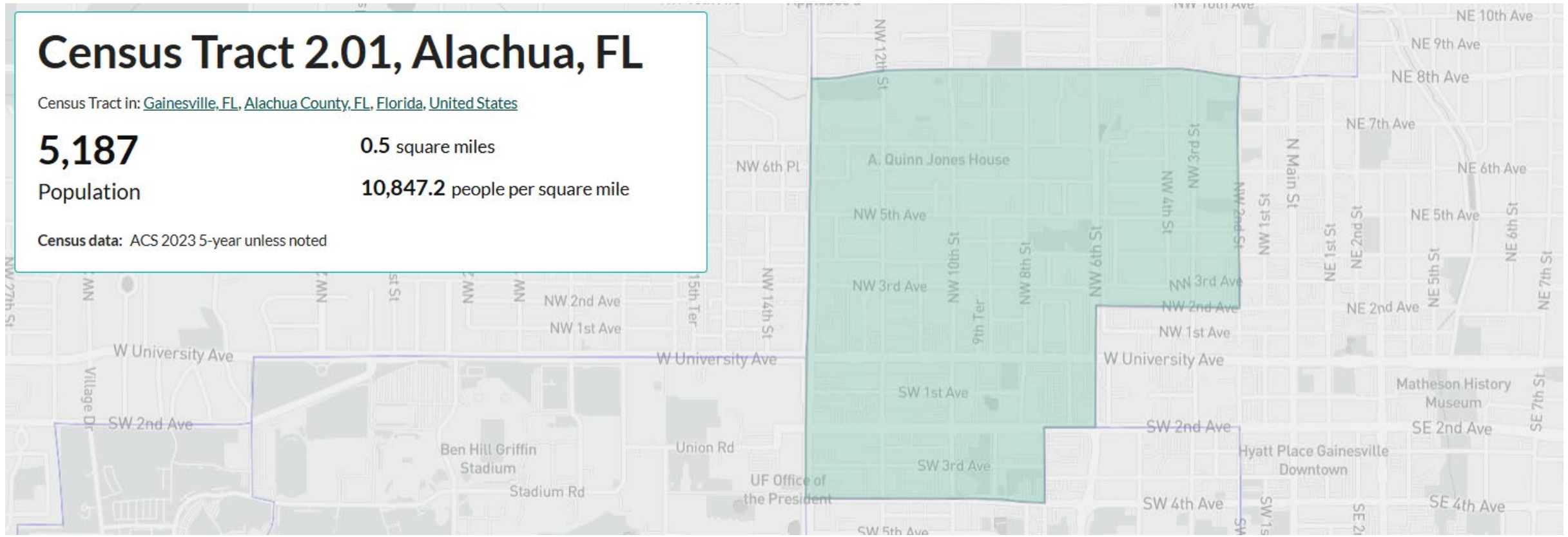
5,187

Population

0.5 square miles

10,847.2 people per square mile

Census data: ACS 2023 5-year unless noted



USE CASE 1: TRAVEL DEMAND MODELS

Variables Needed

- Number of dwelling units by type
 - Single family
 - Multi-family
- Number of automobiles available
 - 0
 - 1
 - 2
 - 3+
- Average persons per dwelling unit
 - 1
 - 2
 - 3
 - 4
 - 5+

2045 Projected Data

CT.ID	CT.Area	CT.Popl	CT.HH	CT.No_veh	CT.Veh1	CT.Veh2	CT.Veh3plus	CT.MultiFamily	CT.SingleFamily
12001000201	306.04	5802	2165	4.26	38.95	41.52	15.27	15.15	25.04

USE CASE 1: TRAVEL DEMAND MODELS

Variables Needed

➤ Number of dwelling units by type

- Single family
- Multi-family

➤ **Number of automobiles available**

- **0**
- **1**
- **2**
- **3+**

➤ Average persons per dwelling unit

- 1
- 2
- 3
- 4
- 5+

CT.ID	CT.Area	CT.Popl	CT.HH	CT.No_veh	CT.Veh1	CT.Veh2	CT.Veh3plus	CT.MultiFamily	CT.SingleFamily
12001000201	306.04	5802	2165	4.26	38.95	41.52	15.27	15.15	25.04

USE CASE 1: TRAVEL DEMAND MODELS

Variables Needed

➤ Number of dwelling units by type

- Single family
- Multi-family

➤ Number of automobiles available

- 0
- 1
- 2
- 3+

➤ **Average persons per dwelling unit**

- **1**
- **2**
- **3**
- **4**
- **5+**

CT.ID	CT.Area	CT.Pop	CT.HH	CT.No_veh	CT.Veh1	CT.Veh2	CT.Veh3plus	CT.MultiFamily	CT.SingleFamily
12001000201	306.04	5802	2165	4.26	38.95	41.52	15.27	15.15	25.04

Population / Households = Avg. Persons per dwelling unit

$$5802 / 2165 = 2.68$$

Average Persons Per Dwelling Unit	One-Person Households	Two-Person Households	Three-Person Households	Four-Person Households	Five-Person Households
0.00-1.12	0.89	0.11	0	0	0
1.13-1.37	0.76	0.22	0.02	0	0
1.38-1.62	0.59	0.34	0.05	0.01	0.01
1.63-1.87	0.46	0.34	0.11	0.06	0.03
1.88-2.12	0.32	0.36	0.16	0.11	0.05
2.13-2.37	0.24	0.36	0.18	0.14	0.08
2.38-2.62	0.21	0.33	0.19	0.16	0.12
2.63-2.87	0.12	0.35	0.19	0.23	0.11
2.88-3.12	0.13	0.34	0.18	0.16	0.19

USE CASE 1: TRAVEL DEMAND MODELS

Variables Needed

➤ Number of dwelling units by type

- Single family
- Multi-family

➤ Number of automobiles available

- 0
- 1
- 2
- 3+

➤ Average persons per dwelling unit

- 1
- 2
- 3
- 4
- 5+

CT.ID	CT.Area	CT.Popl	CT.HH	CT.No_veh	CT.Veh1	CT.Veh2	CT.Veh3plus	CT.MultiFamily	CT.SingleFamily
12001000201	306.04	5802	2165	4.26	38.95	41.52	15.27	15.15	25.04

	Multi-Family	Single Family
Base Year Data (2020)		
Units	1353 units	641 units

USE CASE 1: TRAVEL DEMAND MODELS

Variables Needed

➤ Number of dwelling units by type

- Single family
- Multi-family

➤ Number of automobiles available

- 0
- 1
- 2
- 3+

➤ Average persons per dwelling unit

- 1
- 2
- 3
- 4
- 5+

CT.ID	CT.Area	CT.Popl	CT.HH	CT.No_veh	CT.Veh1	CT.Veh2	CT.Veh3plus	CT.MultiFamily	CT.SingleFamily
12001000201	306.04	5802	2165	4.26	38.95	41.52	15.27	15.15	25.04

	Multi-Family	Single Family
Base Year Data (2020)		
Units	1353 units	641 units
Area	45.41 acres	93.86 acres

2020 Base Year Data

CT.ID	CT.Area	CT.Popl	CT.HH	CT.MultiFamily	CT.SingleFamily
12001000201	306.04103	3748	1653	14.83726	30.66889

USE CASE 1: TRAVEL DEMAND MODELS

Variables Needed

➤ Number of dwelling units by type

- Single family
- Multi-family

➤ Number of automobiles available

- 0
- 1
- 2
- 3+

➤ Average persons per dwelling unit

- 1
- 2
- 3
- 4
- 5+

CT.ID	CT.Area	CT.Pop	CT.HH	CT.No_veh	CT.Veh1	CT.Veh2	CT.Veh3plus	CT.MultiFamily	CT.SingleFamily
12001000201	306.04	5802	2165	4.26	38.95	41.52	15.27	15.15	25.04

	Multi-Family	Single Family
Base Year Data (2020)		
Units	1353 units	641 units
Area	45.41 acres	93.86 acres
Calculations		
Units/Area	29.8 units/acre	6.8 units/acre

USE CASE 1: TRAVEL DEMAND MODELS

Variables Needed

➤ Number of dwelling units by type

- Single family
- Multi-family

➤ Number of automobiles available

- 0
- 1
- 2
- 3+

➤ Average persons per dwelling unit

- 1
- 2
- 3
- 4
- 5+

CT.ID	CT.Area	CT.Pop	CT.HH	CT.No_veh	CT.Veh1	CT.Veh2	CT.Veh3plus	CT.MultiFamily	CT.SingleFamily
12001000201	306.04	5802	2165	4.26	38.95	41.52	15.27	15.15	25.04

	Multi-Family	Single Family
Base Year Data (2020)		
Units	1353 units	641 units
Area	45.41 acres	93.86 acres
Calculations		
Units/Area	29.8 units/acre	6.8 units/acre
Future Year Estimate (2045)		
Area	46.37 acres	76.63 acres

USE CASE 1: TRAVEL DEMAND MODELS

Variables Needed

- **Number of dwelling units by type**
 - **Single family**
 - **Multi-family**
- **Number of automobiles available**
 - 0
 - 1
 - 2
 - 3+
- **Average persons per dwelling unit**
 - 1
 - 2
 - 3
 - 4
 - 5+

CT.ID	CT.Area	CT.Pop	CT.HH	CT.No_veh	CT.Veh1	CT.Veh2	CT.Veh3plus	CT.MultiFamily	CT.SingleFamily
12001000201	306.04	5802	2165	4.26	38.95	41.52	15.27	15.15	25.04

	Multi-Family	Single Family
Base Year Data (2020)		
Units	1353 units	641 units
Area	45.41 acres	93.86 acres
Calculations		
Units/Area	29.8 units/acre	6.8 units/acre
Future Year Estimate (2045)		
Area	46.37 acres	76.63 acres
Units (base)	1382 units	521 units

USE CASE 1: TRAVEL DEMAND MODELS

Variables Needed

- **Number of dwelling units by type**
 - **Single family**
 - **Multi-family**
- **Number of automobiles available**
 - 0
 - 1
 - 2
 - 3+
- **Average persons per dwelling unit**
 - 1
 - 2
 - 3
 - 4
 - 5+

CT.ID	CT.Area	CT.Popu	CT.HH	CT.No_veh	CT.Veh1	CT.Veh2	CT.Veh3plus	CT.MultiFamily	CT.SingleFamily
12001000201	306.04	5802	2165	4.26	38.95	41.52	15.27	15.15	25.04

	Multi-Family	Single Family
Base Year Data (2020)		
Units	1353 units	641 units
Area	45.41 acres	93.86 acres
Calculations		
Units/Area	29.8 units/acre	6.8 units/acre
Future Year Estimate (2045)		
Area	46.37 acres	76.63 acres
Units (base)	1382 units	521 units
Adj. Factor	1.138	

USE CASE 1: TRAVEL DEMAND MODELS

Variables Needed

➤ Number of dwelling units by type

- Single family
- Multi-family

➤ Number of automobiles available

- 0
- 1
- 2
- 3+

➤ Average persons per dwelling unit

- 1
- 2
- 3
- 4
- 5+

CT.ID	CT.Area	CT.Popu	CT.HH	CT.No_veh	CT.Veh1	CT.Veh2	CT.Veh3plus	CT.MultiFamily	CT.SingleFamily
12001000201	306.04	5802	2165	4.26	38.95	41.52	15.27	15.15	25.04

	Multi-Family	Single Family
Base Year Data (2020)		
Units	1353 units	641 units
Area	45.41 acres	93.86 acres
Calculations		
Units/Area	29.8 units/acre	6.8 units/acre
Future Year Estimate (2045)		
Area	46.37 acres	76.63 acres
Units (base)	1382 units	521 units
Adj. Factor	1.138	
Units (adj.)	1573 units	593 units

USE CASE 1: TRAVEL DEMAND MODELS

Variables Needed

- **Number of dwelling units by type**
 - **Single family**
 - **Multi-family**
- **Number of automobiles available**
 - 0
 - 1
 - 2
 - 3+
- **Average persons per dwelling unit**
 - 1
 - 2
 - 3
 - 4
 - 5+

CT.ID	CT.Area	CT.Pop	CT.HH	CT.No_veh	CT.Veh1	CT.Veh2	CT.Veh3plus	CT.MultiFamily	CT.SingleFamily
12001000201	306.04	5802	2165	4.26	38.95	41.52	15.27	15.15	25.04

	Multi-Family	Single Family
Base Year Data (2020)		
Units	1353 units	641 units
Area	45.41 acres	93.86 acres
Calculations		
Units/Area	29.8 units/acre	6.8 units/acre
Future Year Estimate (2045)		
Area	46.37 acres	76.63 acres
Units (base)	1382 units	521 units
Adj. Factor	1.138	
Units (adj.)	1573 units	593 units
Proportion	72.62%	27.38%

USE CASE 1: TRAVEL DEMAND MODELS

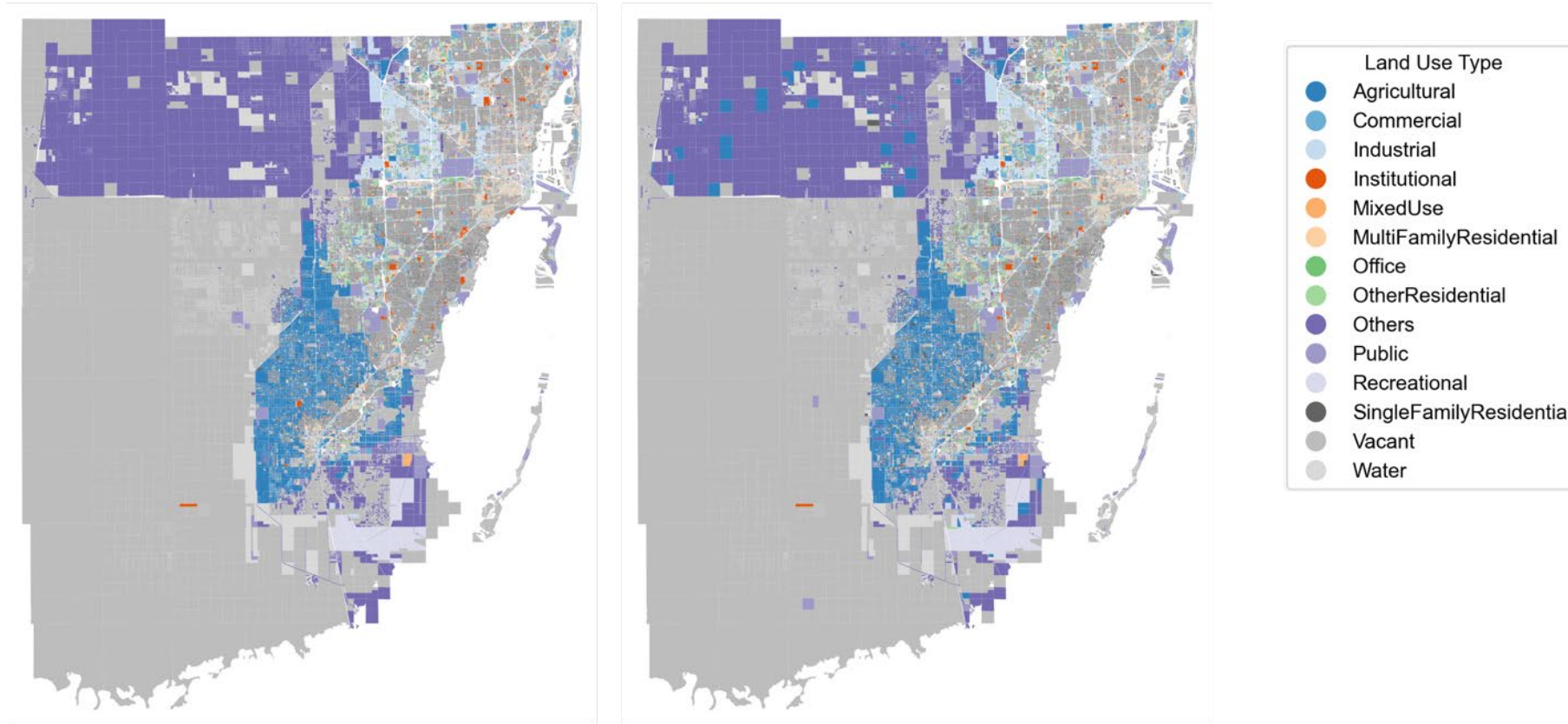
2165 Households

Home-Based Work						
Dwelling Unit Type	Number of Automobiles Available	1 (0.12)	2 (0.35)	3 (0.19)	4 (0.23)	5+ (0.11)
Single Family (0.2738)	0 (0.0426)	0.35	0.64	1.01	1.50	2.08
	1 (0.3895)	0.69	0.98	1.35	1.84	2.42
	2 (0.4152)	1.35	1.64	2.01	2.50	3.08
	3+ (0.1527)	1.76	2.05	2.42	2.90	3.49
Multi-Family (0.7262)	0 (0.0426)	0.41	0.70	1.01	1.31	1.62
	1 (0.3895)	0.95	1.49	2.02	2.56	3.10
	2 (0.4152)	1.65	2.30	2.95	3.60	4.25
	3+ (0.1527)	2.21	2.89	3.59	4.27	4.96

USE CASE 2: DIRECTLY OBSERVE PROJECTED CHANGES

2025	CT.ID 12001000201	CT.Popu 4405	CT.HH 1644	CT.Income 52127	CT.MultiFamily 15.93	CT.SingleFamily 28.96
2030	CT.ID 12001000201	CT.Popu 4838	CT.HH 1805	CT.Income 54151	CT.MultiFamily 15.52	CT.SingleFamily 28.20
2035	CT.ID 12001000201	CT.Popu 5209	CT.HH 1944	CT.Income 56145	CT.MultiFamily 15.15	CT.SingleFamily 27.11
2040	CT.ID 12001000201	CT.Popu 5525	CT.HH 2061	CT.Income 58061	CT.MultiFamily 14.98	CT.SingleFamily 25.81
2045	CT.ID 12001000201	CT.Popu 5802	CT.HH 2165	CT.Income 59914	CT.MultiFamily 15.15	CT.SingleFamily 25.04
2050	CT.ID 12001000201	CT.Popu 6062	CT.HH 2262	CT.Income 61722	CT.MultiFamily 15.20	CT.SingleFamily 23.69

USE CASE 3: IDENTIFY LAND USE PATTERN CHANGES



Miami-Dade 2020

Miami-Dade 2025