

#### **City Commission Election District Analysis**

October 6, 2022 • City of Lake Worth Beach, Florida



# Agenda

- The FAU Redistricting Team
- The City Charter
- The Process
- District Population Analysis
  - 2020 Enumeration
  - 2024 Projection
- Next Steps
- Redistricting Criteria
- Map Alternatives 1 to 4
- Summary of Map Alternatives



# **FAU Redistricting Team**

- Steven C. Bourassa, Ph.D.
  - Professor and Chair, Runstad Department of Real Estate, University of Washington; Formerly Professor and Chair, Department of Urban and Regional Planning
- James Gammack-Clark, M.A., Ph.D. candidate (ABD)
  - Senior Instructor, Department of Geosciences
- Ronald R. Schultz, Ph.D.
  - Professor Emeritus, Department of Geosciences
- Michael Stamm, Jr., MURP
  - Adjunct Faculty, Department of Urban and Regional Planning



# **City Charter Current Election Districts**

- Four election districts
- All territory lying:
  - 1. West of Dixie Hwy and south of Lake Ave
  - 2. West of Dixie Hwy and north of Lake Ave
  - 3. East of Dixie Hwy and north of Lake Ave
  - 4. East of Dixie Hwy and south of Lake Ave





## **The Process**

- Part A Current District Analysis and Population Projections
  - September 7, 2022: report submitted to City
  - September 12, 2022: City Commission voted to proceed to Part B
- Part B Creation of Redistricting Map Alternatives
  - Presentation of alternatives to City Commission and public
  - Map selection and adoption by ordinance



# Data

- U.S. Census Bureau's 2020 Census Redistricting Summary Files [Public Law 94-171]:
  - Resident population counts by census block
    - The smallest enumeration unit possible
  - Aggregated to form each of the four voting districts
- Housing data provided by the City of Lake Worth Beach
  - From which Population Estimates were derived to account for new housing, completed since April 1, 2020 (Census Day) or scheduled for completion and occupancy by February of 2024



# **2020 Enumeration and 2024 Population Projection**

- 2020 US Census Blocks:
  - The population of the City of Lake Worth Beach is 42,219
  - Average population for each district is 10,555

Current	2020 Population	% of City	Deviation From	2024 Population	% of City	Deviation From
Districts		2017) -	Average	Projection		Average
District 1	13,996	33.15	32.60%	14,593	31.60	26.41%
District 2	14,149	33.51	34.05%	17,166	37.17	48.70%
District 3	7,535	17.85	-28.61%	7,717	16.71	-33.15%
District 4	6,539	15.49	-38.05%	6,701	14.51	-41.95%
Total	42,219	100	133.31%	46,177	100	150.21%
Average	10,555	25	33.33%	11,544	25	37.55%



## Existing Districts – Projections

- Projection required to determine future population equity
- 3,958 people will be added to the city by 2024
  - The majority of which (3,018) will be located in District 2

Subdivision	Units	Estimate	District	Date
The One	14	41	4	2020
The Mid	230	667	2	2021
Aviara	49	142	3	2022
The Bohemian	200	580	1	2022
129 South K Street	4	12	4	2023
1303/1305 Lucerne Avenue	4	12	2	2023
15 North E Street	2	6	2	2023
211 Ocean Breeze	3	9	4	2023
230 North L Street	6	17	3	2023
320 Lake Osborne Drive	6	17	1	2023
509 North H Street	3	9	2	2023
Advantix	189	548	2	2023
Alora	12	35	4	2023
Casa Bella	18	52	2	2023
Deco Green	125	363	2	2023
Detroit Street Apartments	81	235	2	2023
Lake Worth Apartments	24	70	2	2023/2024
Lake Worth Station	81	235	2	2023/2024
Serendipity	12	35	2	2023/2024
Solimar	8	23	3	2023/2024
The Avery	200	580	2	2023/2024
The Cloisters Phase III	15	44	4	2023/2024
The Lord's Place	7	21	4	2023/2024
The Perch	18	52	2	2023/2024
Village Flats Phase I	41	119	2	2023/2024
Village Flats Phase II and III	12	35	2	2023/2024
	1,364	3,959		



# **2020 Enumeration and 2024 Population Projection**

- 2024 population projection :
  - The population of the City of Lake Worth Beach will be 46,177
  - Average population for each district will be 11,544

Current Districts	2020 Population	% of City	Deviation From Average	2024 Population Projection	% of City	Deviation From Average
District 1	13,996	33.15	32.60%	14,593	31.60	26.41%
District 2	14,149	33.51	34.05%	17,166	37.17	48.70%
District 3	7,535	17.85	-28.61%	7,717	16.71	-33.15%
District 4	6,539	15.49	-38.05%	6,701	14.51	-41.95%
Total Average	42,219 10,555	100 25	133.31% 33.33%	46,177 11,544	100 25	150.21% 37.55%



# **District Analysis – PROJECTED (2024)**

- Largest: District 2 will have 17,166 people
  - 5,622 (48.70%) more people than the projected average
- Smallest: District 4 will have 6,701 people
  - 4,483 (41.95%) fewer people than the projected average

Current	2020 Dopulation	% of City	<b>Deviation From</b>	2024 Population	% of City	<b>Deviation From</b>
Districts		% OF CILY	Average	Projection	% Of City	Average
District 1	13,996	33.15	32.60%	14,593	31.60	26.41%
District 2	14,149	33.51	34.05%	17,166	37.17	48.70%
District 3	7,535	17.85	-28.61%	7,717	16.71	-33.15%
District 4	6,539	15.49	-38.05%	6,701	14.51	-41.95%
Total	42,219	100	133.31%	46,177	100	150.21%
Average	10,555	25	33.33%	11,544	25	37.55%



# **District Analysis - PROJECTED (2024)**

- Population imbalance will become even more extreme
  - Total deviation of 150.21% across all four districts
  - Spread = 90.65% (48.7% + 41.95% between highest and lowest districts)
  - Exceeding max. 10% overall deviation from the ideal size across districts

Current Districts	2020 Population	% of City	Deviation From Average	2024 Population Projection	% of City	Deviation From Average
District 1	13,996	33.15	32.60%	14,593	31.60	26.41%
District 2	14,149	33.51	34.05%	17,166	37.17	48.70%
District 3	7,535	17.85	-28.61%	7,717	16.71	-33.15%
District 4	6,539	15.49	-38.05%	6,701	14.51	-41.95%
Total	42,219	100	133.31%	46,177	100	150.21%
Average	10,555	25	33.33%	11,544	25	37.55%



# **Next Steps:**

## Part B

- Election districts are severely out of balance
- City needs to redistrict
  - The overall pattern of district boundary changes will need to increase the population of Districts 3 and 4, while reducing that of Districts 1 and 2
  - This will necessitate an adjustment of the geographic boundaries where District 3 and 4 must expand in size, while Districts 1 and 2 must contract
- Creation of map options for Commission consideration
- The Charter does not provide guidance for redistricting
  - It only defines the existing district boundaries



## COMMISSION ELECTION DISTRICT MAP ALTERNATIVES



# **Redistricting Parameters**

- The following guide our efforts:
  - 1. Reasonable population equality across districts
    - A maximum 10% overall deviation from the ideal size across districts.
    - Adhere to Section 2 of the Voting Rights Act of 1965: Arbitrary dilution of minority population clusters and other discriminatory practices are prohibited.
  - 2. Geographic contiguity and appropriate compactness
    - Follow major natural and manmade boundaries where possible.
    - Respect for the integrity of communities of interest.
    - Minimize the degree of change in pre-existing patterns of districts.
- Population equality is of primary importance
  - The others are significant in guiding decisions towards reaching reasonable population balance.



- Four Alternatives have been prepared for consideration:
  - All meet standard districting guidelines
    - Alternative ways to better balance district populations
    - Keep with the intent of the other identified guidelines

- The biggest departure from the city's present four quadrant configuration:
  - North-South border becomes Lucerne Ave, except where District 4 projects north to 7<sup>th</sup> Ave, east of Federal Hwy
  - East-West border largely remains Dixie Hwy
  - Except for where District 3 projects west to North A St, south of 10th Ave, and where
  - District 4 projects west to High Ridge Rd south of 12<sup>th</sup> Ave S









- District 1 gains:
  - 384 people from District 2
  - That area south of Lucerne Ave and west of Dixie Hwy
- District 3 gains:
  - 5,018 people from District 2
  - That part of the Tropical Ridge community found to the west of Dixie Hwy, east of A St, north of Lucerne Ave, and south of 10<sup>th</sup> Ave N
- District 4 gains:
  - 981 people from District 3
  - To the south and east Federal Hwy and 7<sup>th</sup> Ave N, and the area between Lucerne Ave and Lake Worth Rd, east of Dixie
  - 3,509 people from District 1
  - South of 12<sup>th</sup> Ave S and west of Dixie Hwy



- Only three neighborhoods are split:
  - Fewest among the four alternatives
  - Tropical Ridge, Parrot Cove, and Residences of Lake Osborne





- Overall deviation is much improved under Alternative 1
  - Total deviation falls from 150.21% to 7.44%
  - Mean deviation falls from of 37.55% to 1.86%
  - The spread falls from 90.65% to 4.96%

Alt. 1	2020 Population	% of City	<b>Deviation From</b>	2024 Population	% of City	<b>Deviation From</b>
	2020 Population	70 OF City	Average	Projection	70 OI City	Average
District 1	10,648	25.22	0.88%	11,468	24.83	-0.66%
District 2	9,249	21.91	-12.37%	11,764	25.48	1.90%
District 3	11,293	26.75	6.99%	11,754	25.45	1.82%
District 4	11,029	26.12	4.49%	11,191	24.24	-3.06%
Total	42,219	100	24.74%	46,177	100	7.44%
Average	10,555	25	6.19%	11,544	25	1.86%

- Maintains, somewhat, the four quadrant arrangement of the existing Districts:
  - Though the four districts no longer meet at a common intersection
  - North-South border remains Lake Worth Rd, except where District 1 expands north to the west of I-95, south of 7<sup>th</sup> Ave N
  - East-West border between Districts 2 and 3 moves west to the FEC Railway
  - Between Districts 1 & 4, the East-West boundary moves west to South E St









- District 1 gains:
  - 2,053 people from District 2
  - That portion of the Lake Worth Park of Commerce, south of 7<sup>th</sup> Ave S
- District 3 gains:
  - 3,220 people from District 2
  - That area between Dixie Hwy and the FEC Railway, north of Lake Worth Rd
- District 4 gains:
  - 4,800 people from District 1
  - That area between Dixie Hwy and South E St, south of Lake Worth Rd

## • Eight neighborhoods are split:

- Most among the four alternatives
- Sunset Ridge, Tropical Ridge, Royal Poinciana, Memorial Park, Whispering Palms, Downtown Jewel, Bryant Park, and Commerce Park Village





- Overall deviation is much improved under Alternative 2
  - Total deviation falls from 150.21% to 11.27%
  - Mean deviation falls from of 37.55% to 2.82% (highest of the alternatives)
  - The spread falls from 90.65% to 8.28% (highest of the alternatives)

Alt. 2	2020 Population	% of Citv	<b>Deviation From</b>	2024 Population	% of City	<b>Deviation From</b>
			Average	Projection		Average
District 1	11,594	27.46	9.85%	11,846	25.65	2.61%
District 2	10,420	24.68	-1.28%	11,893	25.76	3.02%
District 3	9,446	22.37	-10.50%	10,937	23.68	-5.26%
District 4	10,759	25.48	1.94%	11,501	24.91	-0.37%
Total	42,219	100	23.56%	46,177	100	11.27%
Average	10,555	25	5.89%	11,544	25	2.82%

# City of Lake Worth Beach Alternative Districts: Option 3 2 3 4

- Variant of Alternative 2 that creates a more compact and balanced District 1 while leaving District 4 unchanged:
  - North-South border remains Lake Worth Rd, except where District 1 expands north to 3rd Ave N, east of I-95
  - To improve population equity between Districts 2 and 3, several jogs are introduced to their East-West border: from Dixie Hwy to the FEC railway south of Worthmore Dr, then to E St south of 7th Ave N
  - Between Districts 1 and 4, the East-West boundary moves west to South E St







- District 1 gains:
  - 1,643 people from District 2
  - That portion of Tropical Ridge, south of 3rd Ave N and west of E St
- District 3 gains:
  - 3,917 people from District 2
  - That area between Dixie Hwy and the FEC Railway, north of 7<sup>th</sup> Ave N and south of Worthmore Dr, together with that area between Dixie Hwy and E St, south of 7<sup>th</sup> Ave N and north of Lake Worth Rd
- District 4 gains:
  - 4,800 people from District 1
  - That area between Dixie Hwy and the South E St, south of Lake Worth Rd



#### • Seven neighborhoods are split:

 Sunset Ridge, Tropical Ridge, Royal Poinciana, Memorial Park, Whispering Palms, Downtown Jewel, and Bryant Park





- Overall deviation is much improved under Alternative 3
  - Total deviation falls from 150.21% to 2.62%
  - Mean deviation falls from of 37.55% to 0.66% (lowest of the alternatives)
  - The spread falls from 90.65% to 1.72% (lowest of the alternatives)

Alt. 3	2020 Population	% of City	Deviation From Average	2024 Population Projection	% of City	Deviation From Average
District 1	11,315	26.80	7.20%	11,436	24.77	-0.94%
District 2	10,121	23.97	-4.11%	11,606	25.13	0.53%
District 3	10,024	23.74	-5.03%	11,634	25.19	0.78%
District 4	10,759	25.48	1.94%	11,501	24.91	-0.37%
Total	42,219	100	18.28%	46,177	100	2.62%
Average	10,555	25	4.57%	11,544	25	0.66%

• Marries the best of Alt. 1 and 3 together:

City of Lake Worth Beach Alternative Districts: Option 4

2

3

4

- North-South border remains Lake Worth Rd, except where District 1 expands north to 3rd Ave N, east of I-95
- To improve population equity between Districts 2 and 3, several jogs are introduced to their East-West border: from Dixie Hwy to the FEC railway south of Worthmore Dr, then to E St south of 10th Ave N
- Between Districts 1 and 4, the East-West boundary moves west to the FEC Railway, and then District 4 projects west to High Ridge Rd south of 12th Ave S







- District 1 gains:
  - 1,797 people from District 2
  - That area south of 3rd Ave N and west of E St, together with that area found to the west of the FEC Railway between Lucerne Ave and Lake Worth Rd
- District 3 gains:
  - 4,187 people from District 2
  - That area between Dixie Hwy and the FEC Railway, north of 10<sup>th</sup> Ave N and south of Worthmore Dr, together with that area between Dixie Hwy and E St, south of 10<sup>th</sup> Ave N and north of Lucerne Ave



# **Alternative 4**

#### • District 4 gains:

- 4,513 people from District 1
- That area between Dixie Hwy and the FEC Railway, and that part of the city found to the east of Dixie Hwy and south of 12<sup>th</sup> Ave S
- 10 people from District 2
- That area found between Lucerne Ave and Lake Worth Rd, and between Dixie Hwy and the FEC Railway
- 236 people from District 3
- That area found between Lucerne Ave and Lake Worth Rd, and east of the FEC Railway



# **Alternative 4**

## • Four neighborhoods are split:

• Sunset Ridge, Tropical Ridge, Royal Poinciana, and Memorial Park



- Overall deviation is much improved under Alternative 4
  - Total deviation falls from 150.21% to 7.91%
  - Mean deviation falls from of 37.55% to 1.98%
  - The spread falls from 90.65% to 6.10%

Alt. 4	2020 Population	% of City	Deviation From Average	2024 Population Projection	% of City	Deviation From Average
District 1	11.637	27.56	10.25%	11.877	25.72	2.88%
District 2	9,687	22.94	-8.22%	11,172	24.19	-3.22%
District 3	10,177	24.11	-3.58%	11,668	25.27	1.07%
District 4	10,718	25.39	1.55%	11,460	24.82	-0.73%
Total	42,219	100	23.60%	46,177	100	7.91%
Average	10,555	25	5.90%	11,544	25	1.98%



# Summary

- All of the alternatives dramatically improve population equity
  - Alt 1 splits the fewest number of number of neighborhoods
  - Alt 2 attempts to maintain the existing 4 quadrants configuration
  - Alt 3 is the most balanced of the options presented
  - Alt 4 marries the best of aspects of Alt's 1 and 3 together

Configuration	Impacted Population	Split Neighborhoods	Total Deviation	Mean Deviation	Spread
Existing Districts	N/A	3	150.21	37.55	90.65
Alternative 1	9,892	3	7.44	1.86	4.96
Alternative 2	10,073	8	11.27	2.82	8.28
Alternative 3	10,360	7	2.62	0.66	1.72
Alternative 4	10,743	4	7.91	1.98	6.10



# **Questions?**

**City of Lake Worth Beach Redistricting Alternatives** 







