

Early Warning Systems in the Age of the Opioid Epidemic

- Information to Action

Objectives

Better Understanding of...

- ▶ Importance of social & cultural influences on SUD beliefs and behaviors
- ▶ Breadth, depth and limitations of data management systems
- ▶ Development of early warning systems and coordination of a community response
- ▶ Data, coalitions and prevention work in the opioid epidemic

Florida's Tale

- ▶ 2003-2009: Pain clinics prescribing large quantities of drugs for pain
- ▶ 2010: 98 out of 100 who dispensed the highest quantities were located in Florida
- ▶ Action:
 - ▶ Pain Clinical Regulations enacted
 - ▶ Law enforcement raids
 - ▶ Physician dispensing of schedule II or III drugs from their offices was banned
- ▶ Result:
 - ▶ Decline in opioid-related overdose death rates through 2014
- ▶ BUT: Heroin death rates increased by 462%
- ▶ Overdose rates continued along with the increase of polysubstance with fentanyl and cocaine.
- ▶ 2017: Medical Examiner's report - Deaths caused by fentanyl increased by 97%

Surveillance and Prevention work

- ▶ Drug Epidemiology Network (DEN)
 - ▶ Gain a comprehensive understanding of local consumption patterns, consequences, risk and protective factors, and contributing conditions;
 - ▶ Serve as sentinels for detecting emerging drug threats; and
 - ▶ Analyze and disseminate surveillance data for use in the development of local policies, practices, strategies, and programs.

Bringing together the Data

Decipher the Picture

- ▶ Surveillance of the patterns of progression
- ▶ Monitoring trends, dangers, and hot spots
 - ▶ Anticipate changes, predict upcoming challenges and rising trends
- ▶ Information Overlay - across the data points
- ▶ Allows a context focus
 - ▶ When changes do not mean the initial “*conclusion*”
 - ▶ Identifies differences on the who and where and why across the communities
 - ▶ Examines the what in order to plan for the what now

Early Warning Systems

Key elements

- ▶ Objective
- ▶ System
- ▶ Sequence
- ▶ Information
- ▶ Activation
- ▶ Risk Analysis



Early Warning Systems

Key elements

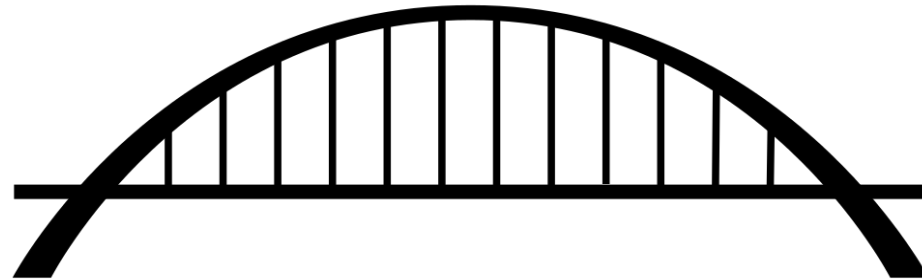
- ▶ Subsystems
- ▶ Connection
- ▶ Context/larger systems
- ▶ Response System
- ▶ Response Capability
- ▶ Feedback
- ▶ Learning



Early Warning Systems

Key elements

- ▶ Sources of data
- ▶ Forecast Nature
- ▶ Formalization



Coalitions & Opioid Epidemic

- ▶ Coalitions are not to do all the work, but facilitate the process
 - ▶ Who is needed at the table(s) to address the issue
- ▶ Partnership
 - ▶ Think of all who are impacted by this in some way
 - ▶ Think of those who are part of the issue
 - ▶ Example: Drug Maker or Pharmacies
- ▶ Resources
 - ▶ Not only human resources
 - ▶ Example: National Guard
- ▶ Connectors
 - ▶ What connections do the partners have
 - ▶ Example: Pharmacist

Coalitions & Opioid Epidemic continued

▶ Education

- ▶ The data helps to educate those you need to be part of the solution
- ▶ Who else needs to be educated
 - ▶ How do you reach them

▶ Data

- ▶ Who has the data
- ▶ What data do you need
 - ▶ Think outside the box; this is not the typical issue we are dealing with
- ▶ Sharing of data
 - ▶ Additional resources into the community

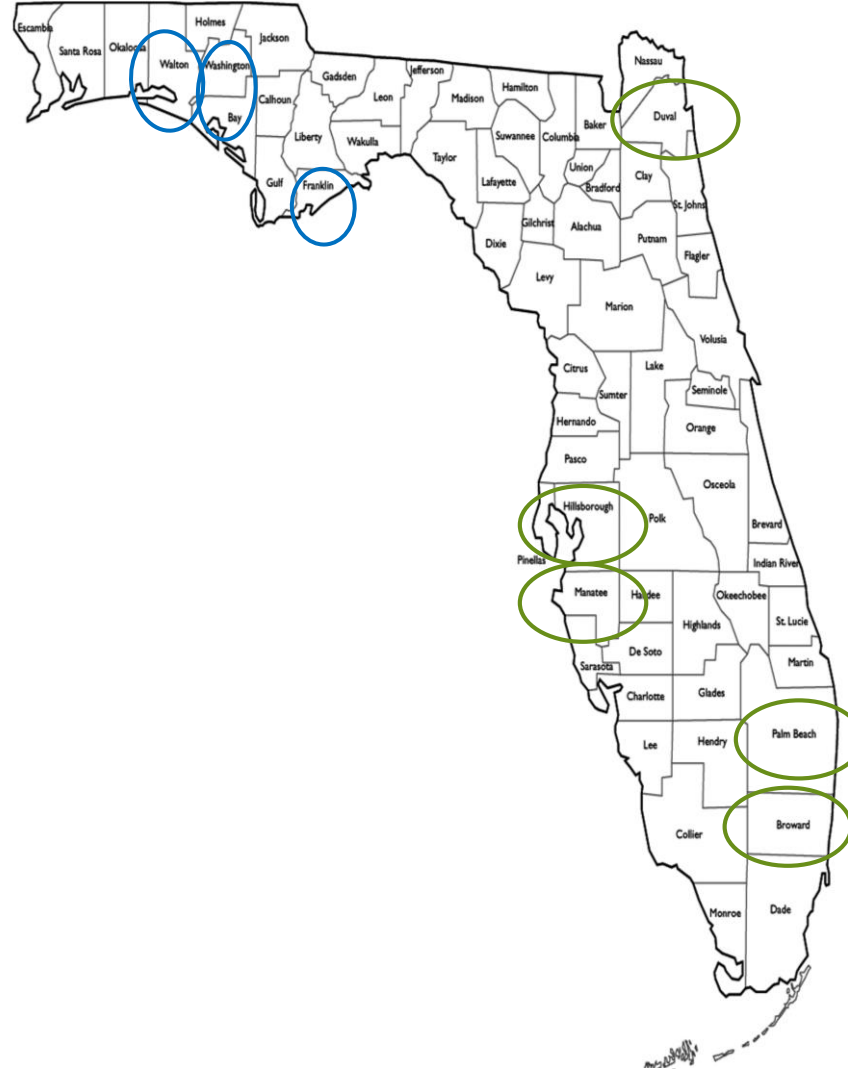
Coalitions & Opioid Epidemic continued

- ▶ Planning - big picture
 - ▶ Identify those areas that are missing from the picture as well as help to craft the messaging that can be shared with the legislature
 - ▶ It is not just prevention, it is what is needed in the community to address the issue
 - ▶ Pilot Projects

It truly is the work of the partners making the impact in the community

DENs in Florida

- ▶ Franklin DEN
- ▶ Broward DEN
- ▶ Duval DEN
- ▶ Hillsborough DEN
- ▶ Manatee DEN
- ▶ Palm Beach DEN
- ▶ Walton DEN
- ▶ Washington DEN



→ Together, the DENs roll up into the State Epidemiological Outcomes Workgroup (SEOW)

Initial Membership

- ▶ Health
- ▶ Government
- ▶ School
- ▶ Community
- ▶ Law Enforcement



Expanding the Table

New Partnerships

- ▶ High Intensity Drug Trafficking Area (HIDTA)
- ▶ The Florida National Guard
- ▶ Association of Pharmacies
- ▶ Peer Recovery Specialists
- ▶ Hospitals
- ▶ Child Welfare
- ▶ Fire and Rescue

SEOW

- ▶ 1. Identify valid, reliable, and relevant consumption and consequence data
- ▶ 2. Determine gaps in the data set
- ▶ 3. Analyze data sets and make observations about relationships
- ▶ 4. Monitor and report on changes to priority data indicators
- ▶ 5. Guide the development and operations of DENs
- ▶ 6. Produce an annual SEOW report to disseminate state-level surveillance

*Able to identify discrepancies - State report vs Local
Mechanisms in place had a disconnect*

Data Challenges

- ▶ Collection systems - differing requirements, different indicators
- ▶ Lag time
- ▶ The HYPER-focus on opioid vs the reality of the polysubstance problem
- ▶ Consistency
- ▶ Disconnect between systems

Information to Action



SAMHSA's Strategic Prevention Framework Steps



U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES
Substance Abuse and Mental Health Services Administration
Center for Substance Abuse Prevention
www.samhsa.gov

Information to Action

a) Consequences



b) Consumption Patterns

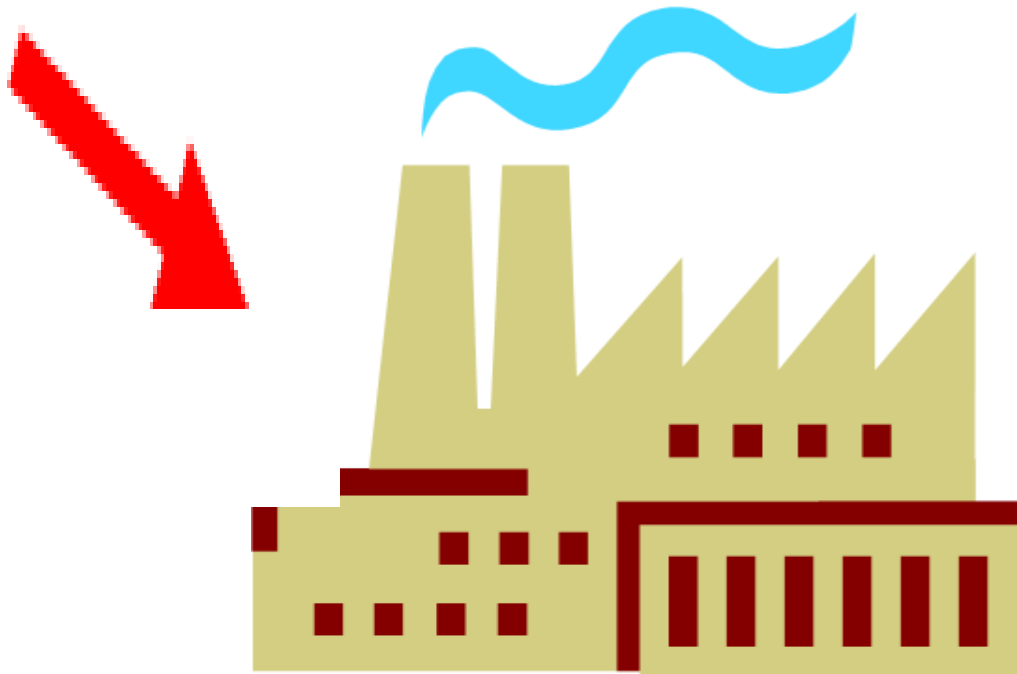


c) Contributing Factors

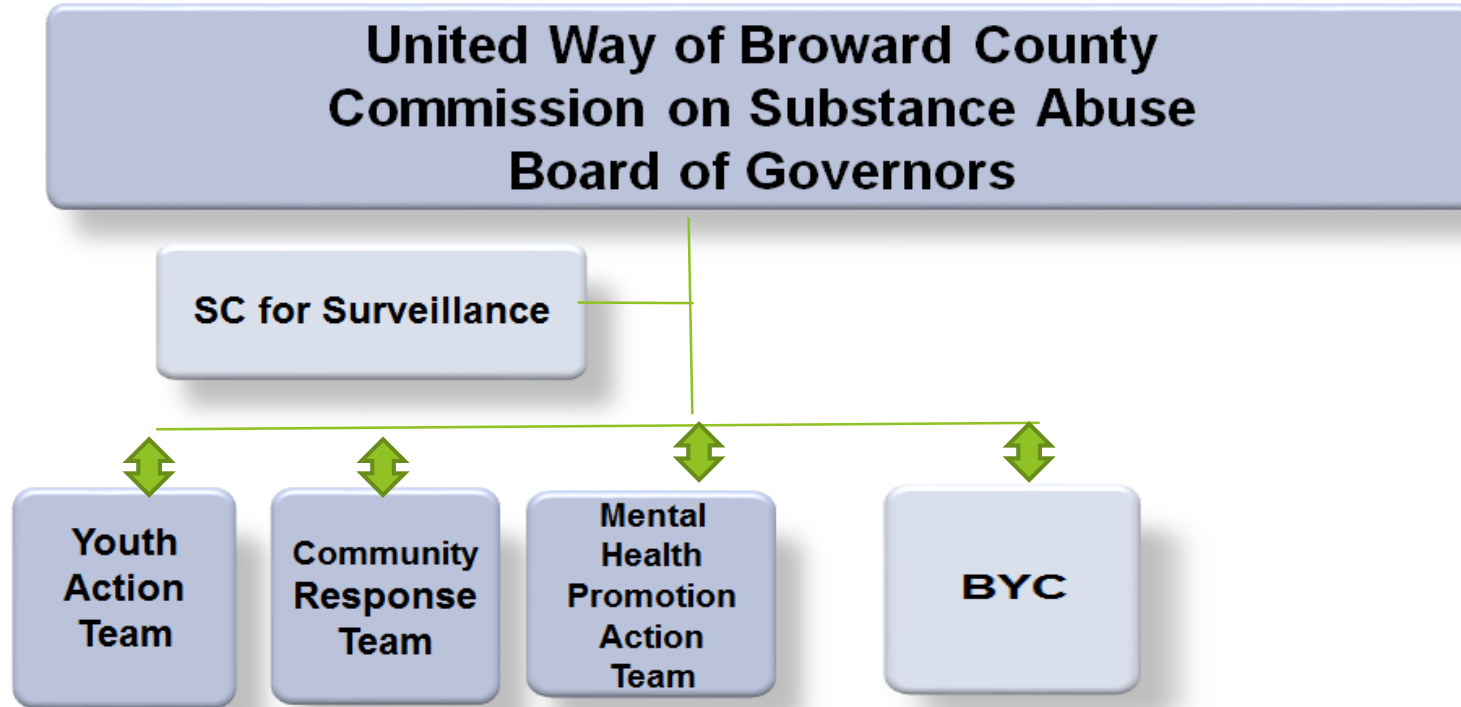


Identifying the Determinants of a Public Health Crisis Reveals What Needs to be Changed to End the Epidemic

Information to Action



Information to Action

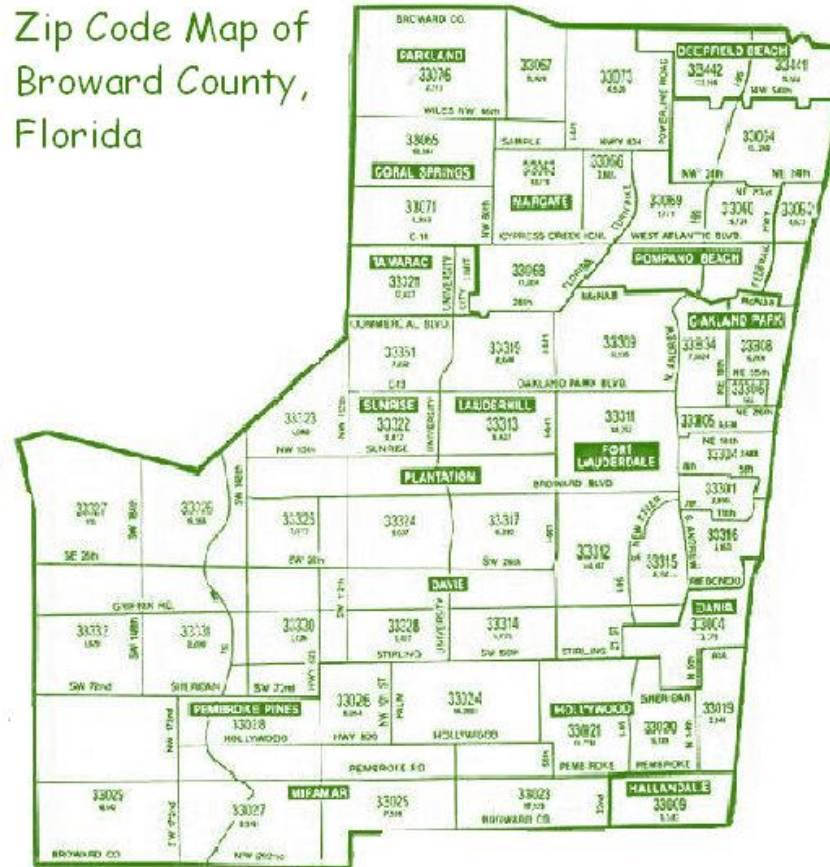


Health Risks & Emerging Trends → Logic Models → Action Plans → Change in CCPAP Indicators

Broward

(Structure & Products)

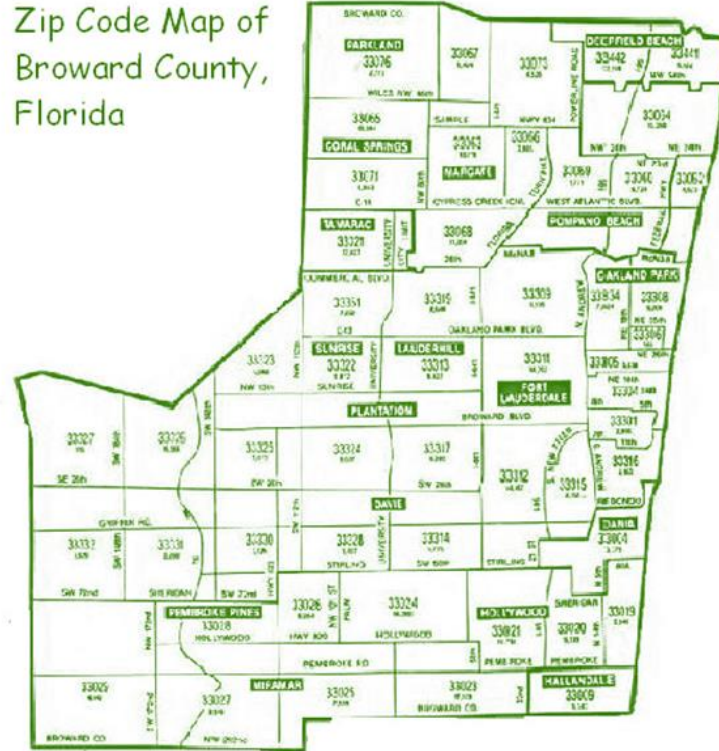
Zip Code Map of
Broward County,
Florida



About Broward

- ▶ Demographic data
- ▶ Size

Zip Code Map of
Broward County,
Florida



Broward County Florida Demographics

Population est. June 1, 2016	1,909,632
Persons under 18 yrs. of age	21.5 %
Persons aged 65 yrs. and over	15.7 %
Females	51.4 %
White	64.4 %
Black or African American	29.2 %
Asian	3.8 %
Two or more races	2.1 %
Hispanic or Latino	28.0 %

Partners at the table

Partners at the table

- ▶ **Commission On Substance Abuse Surveillance Committee**
 - ▶ Broward Addiction Treatment Program
 - ▶ South Florida High Intensity Drug Trafficking Area
 - ▶ **STOPPNOW**
 - ▶ Corrections - Probation and Parole
 - ▶ US Drug Enforcement Administration
 - ▶ Broward County Public Schools
 - ▶ Hanley Center
 - ▶ Broward Sheriff's Office
 - ▶ Broward Behavioral Health Coalition
 - ▶ Toxicologist
 - ▶ Nova Southeastern University



PILOT

- Law Enforcement
- Holy Cross Hospital
- Central Receiving Facility
- ER staff
- Peer Specialists/Recovery Coaches
- Private Treatment Facilities



2016-2017

BROWARD COUNTY
OPIATE ACTION PLAN

www.drugfreebroward.org

*Presented by the
Community Response Team*

**Click on:
Initiatives**





2018

BROWARD COUNTY

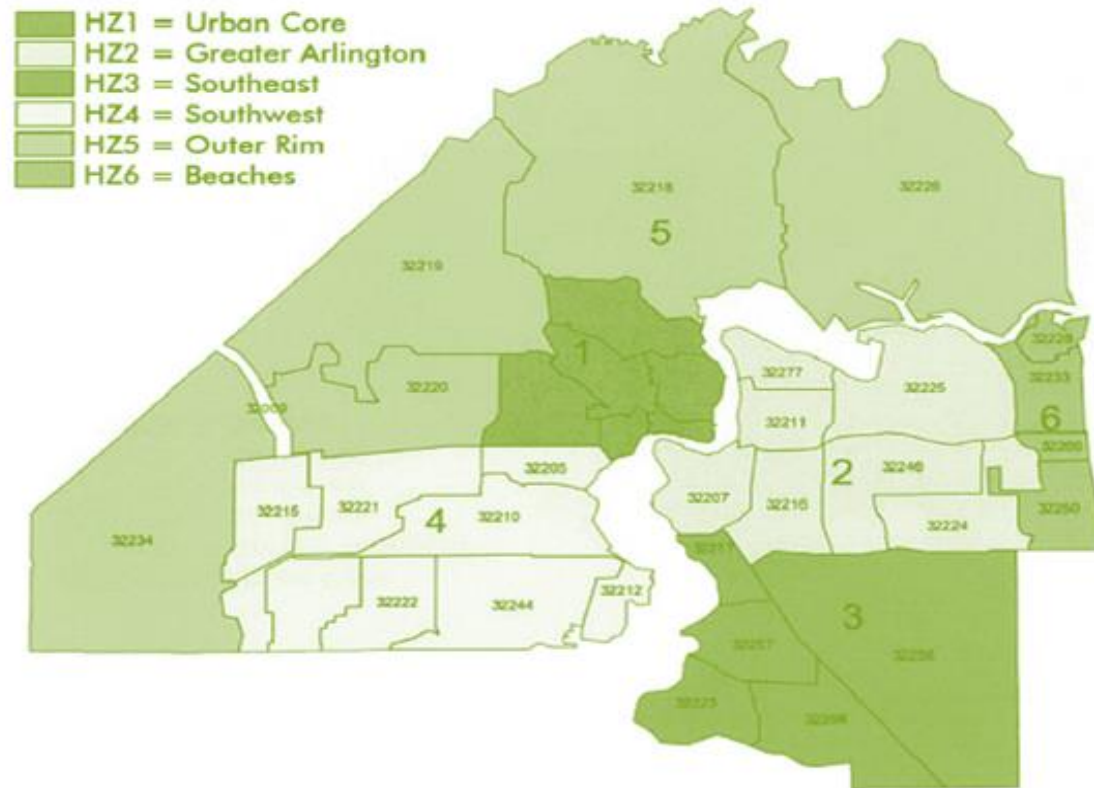
OPIOID PREVENTION

INFORMATION & RESOURCE GUIDE



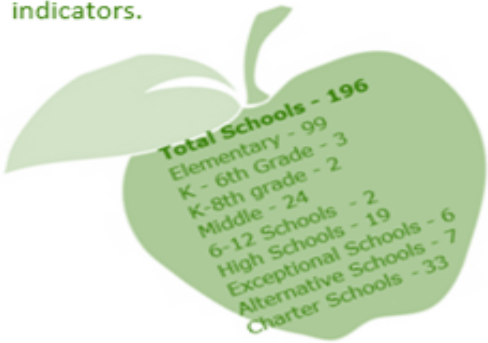
Duval

(Structure & Products)



Data Snapshot

Duval County, Florida is the largest of the 23 counties within the Northeast region. This Data Snapshot provides a brief overview of Duval County as well as key substance abuse-related indicators.



Demographic Data

	Total Population	Ethnicity			Sex	
		White	Black/Other	Hispanic	Male	Female
STATE	20,209,604	16,151,713	4,057,891	5,796,589	9,911,716	10,297,888
Northeast	3,784,868	3,037,036	747,832	493,340	1,852,605	1,932,263
Duval	922,006	587,964	334,042	117,171	450,048	471,958

Population Description

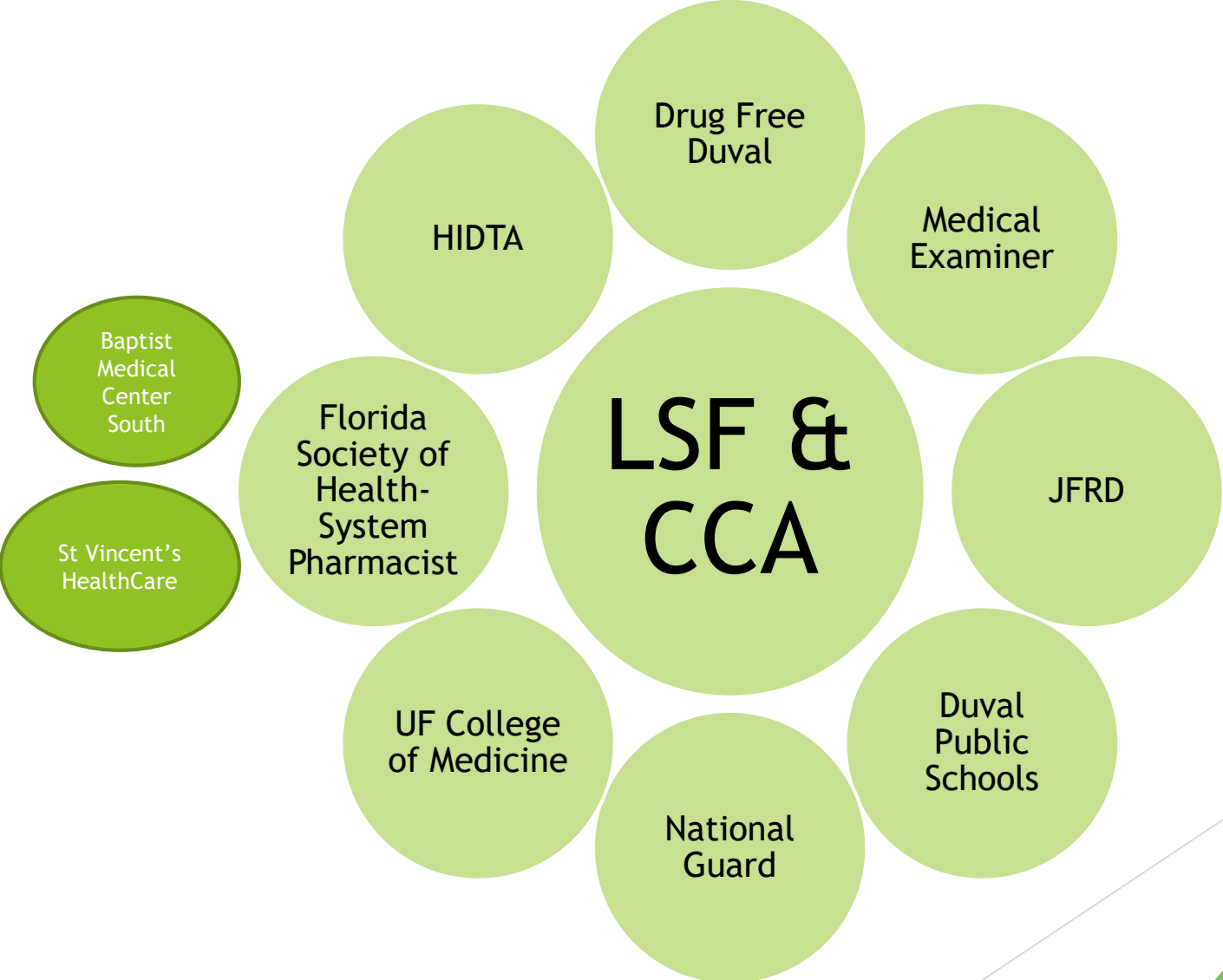
Median Income: \$47, 690
 Families Below Poverty Line: 13.4%
 Child Poverty: 26%
 Unemployment Rate: 10
 High School Drop Out Rate: 11.4



Total Hospitals - 7

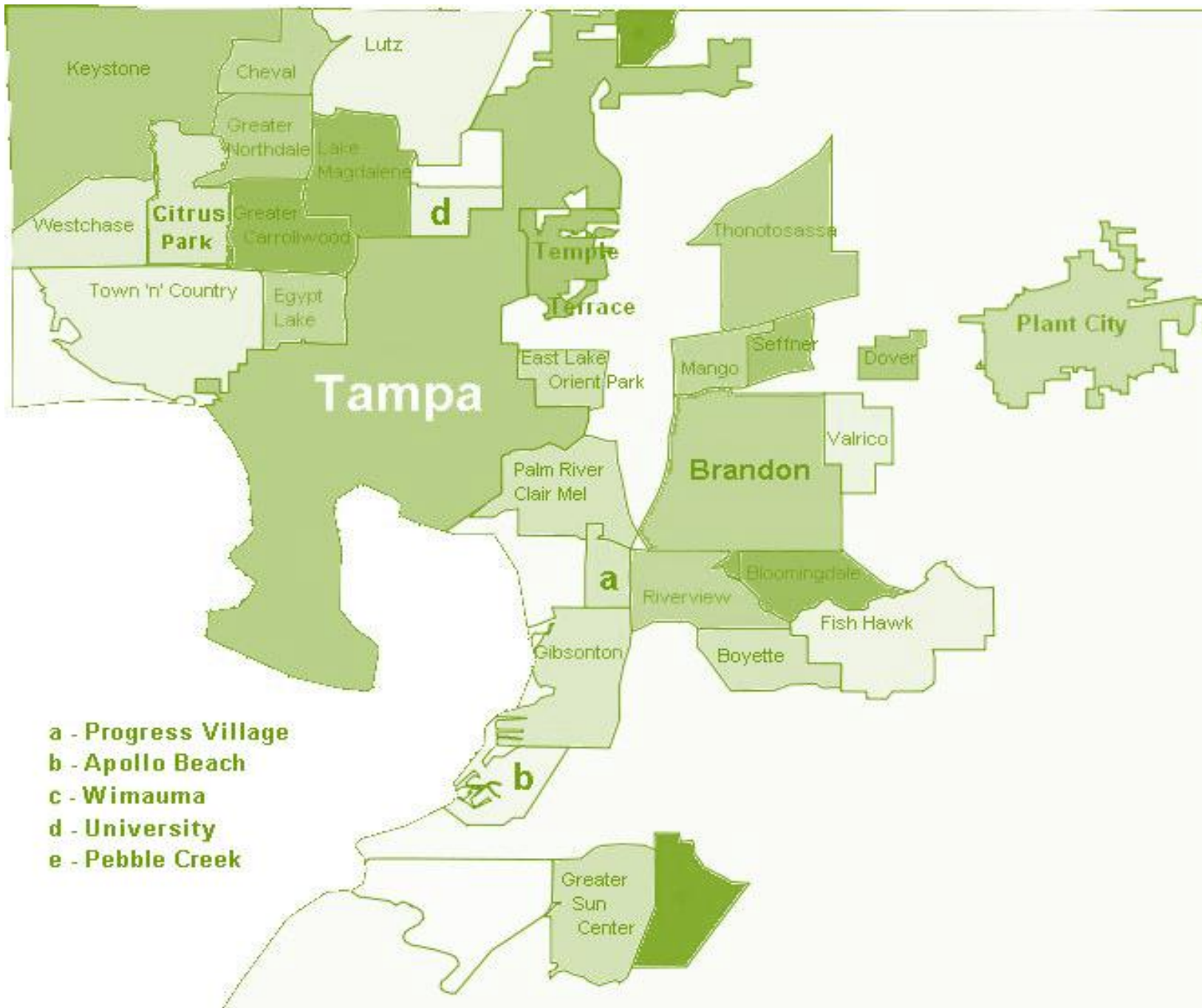
- Mayo Clinic
- Baptist Medical Center Beaches
- Baptist Medical Center Jacksonville
- Baptist Medical Center Southside
- St Vincent Medical Center Southside
- St Vincent Medical Center Riverside
- UF Health Jacksonville
- Memorial Hospital Jacksonville

Partners at the table



Upcoming Initiatives

- ▶ Media Campaign - *Did you know?* Focus on Narcan, Resources, and Good Samaritan Law
- ▶ Policy focus - product placement Narcan,
- ▶ Editorial series - Dangers & Challenges - A Community Alert
- ▶ Pilot Project: Recovery Peer Specialists, SBIRT, family focus, NAS
- ▶ Narcan Distribution: areas of need, method
- ▶ Safe Disposal: DisposeRx/Deterra, training, education, target population
- ▶ Education: schools/parents, community, partners, individuals
- ▶ Mobile Drug Take Back Initiatives



- a - Progress Village
- b - Apollo Beach
- c - Wimauma
- d - University
- e - Pebble Creek

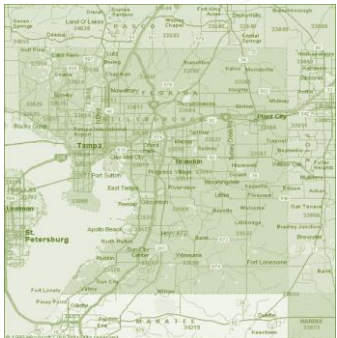
Data snapshot

Hillsborough County, Florida is the 4th largest county within the state. With 1.3 million people, it is the most populous county outside the Miami Metropolitan Area.



Demographic Data

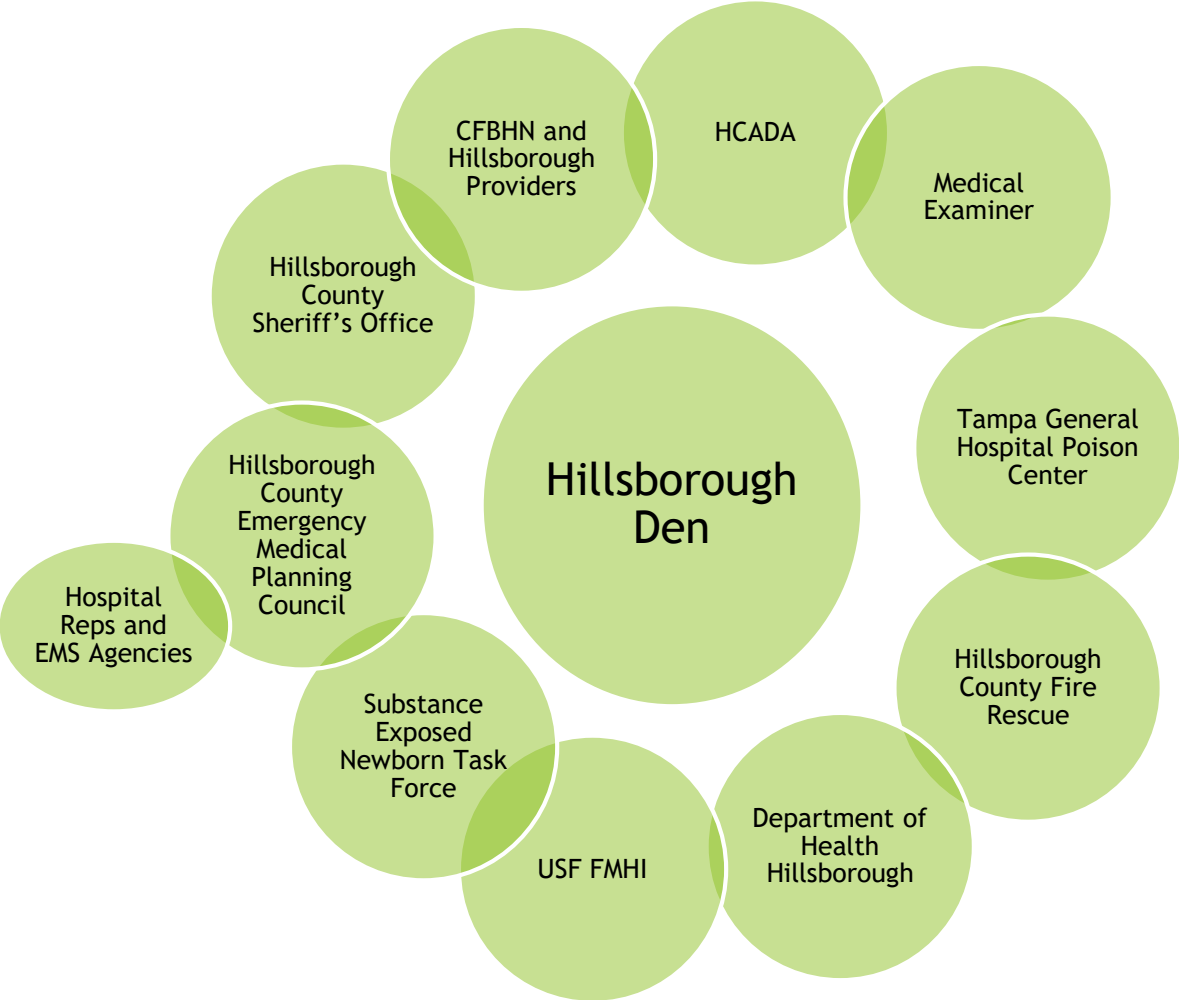
	Total Population	Ethnicity			Sex	
		White	Black/Other	Hispanic	Male	Female
State	20,209,604	16,151,713	4,057,891	5,796,589	9,911,716	10,297,888
Suncoast	4,343,168					
Hillsborough	1,349,050	1,011,787	283,300	364,243	656,987	692,063



Population Description

- Median Income: \$50,122
- Families Below Poverty Line 16.4%
- Child Poverty 17.8%
- Unemployment Rate 4.9%
- High School Drop Out rate 15%

Partners at the table



Conclusions and Lessons Learned

- ▶ Naloxone administrations are increasing
- ▶ Hillsborough has high rate of children removed from the home due to parental substance abuse
- ▶ Hillsborough has high rate of substance exposed newborns
- ▶ Those entering treatment for heroin is increasing
- ▶ Although opioid treatment admissions are decreasing slightly - they're still high

Starting a DEN advice:

- ▶ It's going to take longer than you think.
 - ▶ To get all partners at the table
 - ▶ To get data collected
 - ▶ To get data collected in the same manner
- ▶ Meeting monthly may be too much
- ▶ Hurricanes can throw you off track!

Manatee



Manatee Data Snapshot

	Total Pop	White	Black, Other	Hispanic	Male	Female
State	20,209,604	16,151,713	4,057,891	5,796,589	9,911,716	10,297,888
Suncoast	4,343,168					
Manatee	375,888	269,136 (71.6%)	34,582 (9.2%)	60,518 (16.1%)	184,185 (49%)	191,703 (51%)

Population Demographics	
Median Income	\$49,675
↓ Poverty line	15.2%
Child Poverty rate	24%
HS Dropout Rate	3.6%**
ESL Households	16.3%

Manatee School District: 47,000+ students

- 34 Elementary Schools
- 19 Middle Schools
- 8 High Schools (public & charter)
- 60% receive free/reduced lunch
- 2,200 identified as homeless

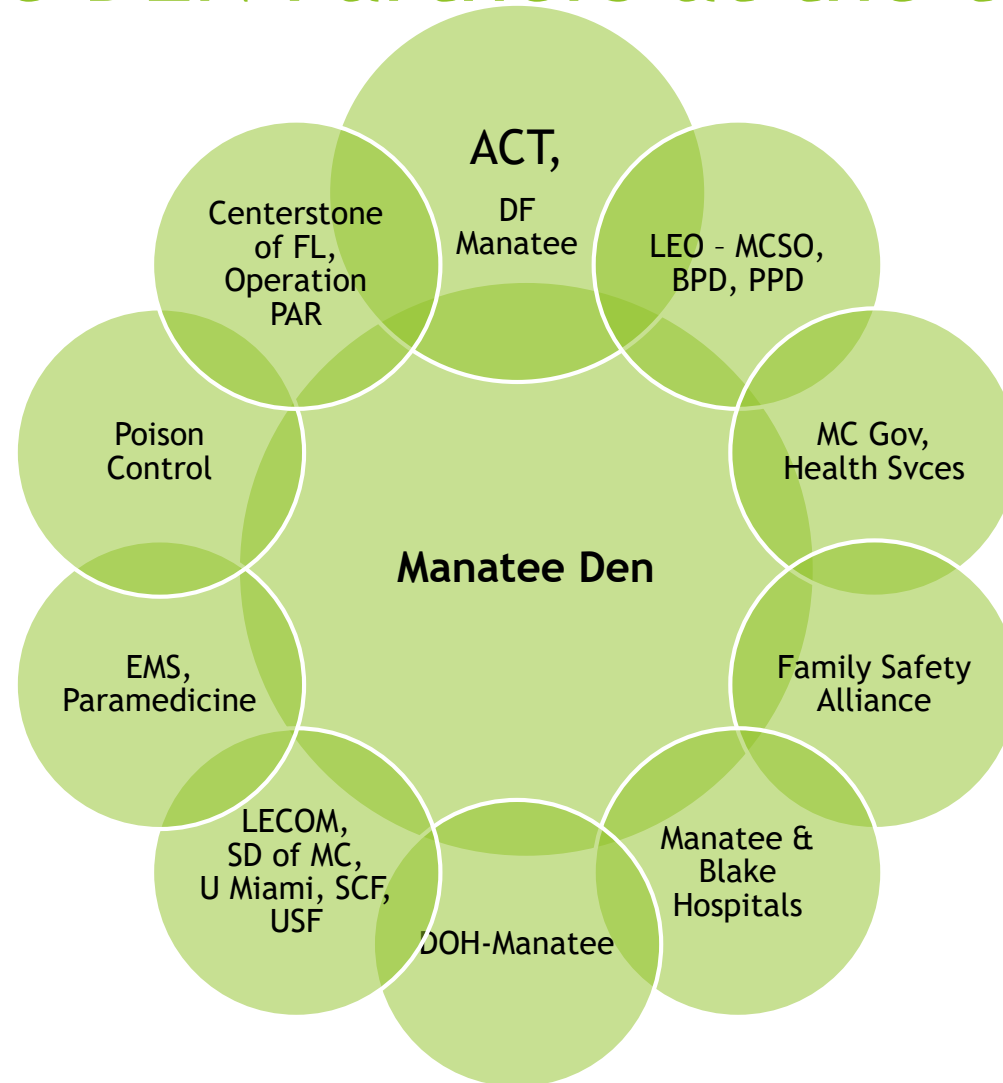
Manatee Hospitals (none are public; 800 beds)

- Blake Med. Ctr.
- Lakewood Ranch Med. Ctr.
- Manatee Memorial Hospital
- Centerstone of FL
- Suncoast Behavioral Health Ctr.

Manatee DEN Partners at the table

SECTORS

- GOVERNMENT
- HEALTHCARE
 - Public
 - Private
- TREATMENT
- EDUCATION
 - Public Schools
 - Higher Ed
- LEO
- CHILD WELFARE
- COMMUNITY



Key Takeaways from Current Manatee Data

- ▶ Number/Rate for EMS Narcan administration have started to decline over the past quarter - **why?**
- ▶ Rates for Child Removals, NAS babies, deaths by overdose and other key indicators do not yet reflect any decline - time lag from impact to outcome
- ▶ Relatively small number of 'frequent fliers' account for high rates of ED visits, Narcan administrations, etc.
- ▶ Data also serves to point out recurring issues
 - ▶ Agency/org reporting for FY and CY as a variant of funding/reporting source. No organization or agency routinely captures the data both ways, so comparing timeline data sets requires that, as a DEN, all data be available month by month to facilitate compilation.
 - ▶ Demographic data is also compromised e.g. age ranges vary depending on funder (DOJ, County, DCF, HHS) requirements

Early Warning Systems

- ▶ Requires partnerships AND commitment across the sectors
- ▶ Still have challenges to overcome
- ▶ Need to be able to connect within the State as well as to our neighboring counties
 - ▶ Borders exist on paper - trends travel and travel fast
- ▶ It takes time

Open Discussion

- ▶ Questions?
- ▶ Recommendations?
- ▶ Concerns?



Thank You!!!

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 - ▶ Broward
- ▶ Kathleen Roberts: director@ccafl.org & Lisa A. Jones: coordinator@ccafl.org
 - ▶ Duval
- ▶ Cindy Grant: togetheragain@earthlink.net
 - ▶ Hillsborough
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 - ▶ Manatee