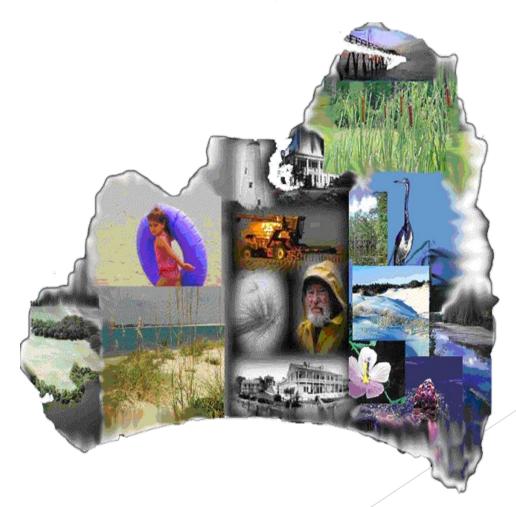
Brunswick County Emergency Services



Protecting the Citizens of Brunswick County





Update on Hurricane Florence

- FEMA Declarations
 - September 14, 2018 Public Assistance Categories A & B
 - September 14, 2018 Individual Assistance
 - October 13, 2018 Public Assistance C through G
- Damage Assessment
 - Unincorporated Brunswick County: \$17,600,000
 - Brunswick Cities and Towns: \$27,145,000
 - Total: \$44,745,000
 - Debris Management:
 - Pickup continues in unincorporated areas
 - Most municipalities have activated their debris contract as well
 - BOCC approved pickup in gated communities on 10/15/2018



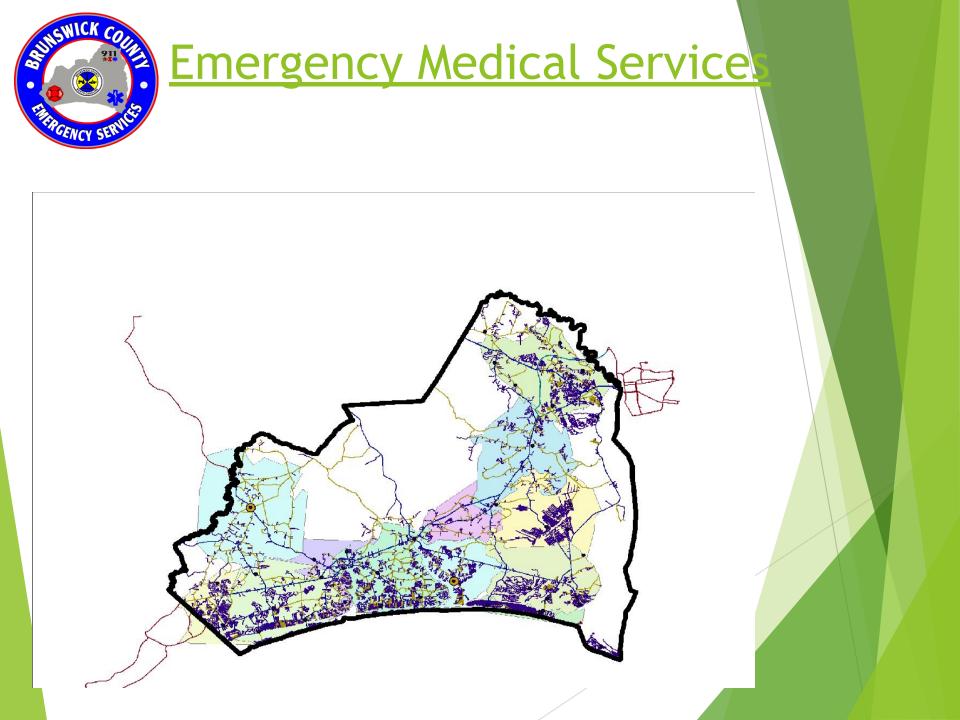
Brunswick County Emergency Service

- Two Divisions
 - Emergency Medical Services
 - Emergency Management
- Special Teams
 - Disaster Medical Specialist
 - Rescue Teams (Swiftwater/ Flood & Confined Space)
- 94 Full time employees
 - Total Budget \$11.2 million



Emergency Medical Service

- Primary paramedic service for citizens and visitors of Brunswick County
 - 20,000 Responses per year
 - 15,000 Transports per year
- Staffing
 - 7 Ambulances 24 hours per day
 - 2 Quick Response Vehicles 24 hours per day
 - 3 Peak load ambulances
 - Employees
 - 92 Employees
 - 9 Administrative Staff
 - 5 Supervisory
 - 78 Paramedics and EMT's
 - Funding Sources
 - County Funds: \$5,800,000 (60%)
 - User Fees: \$4,800,000 (40%)





Emergency Medical Service

How we determine staffing and ambulance placement

Ambulance Deployment

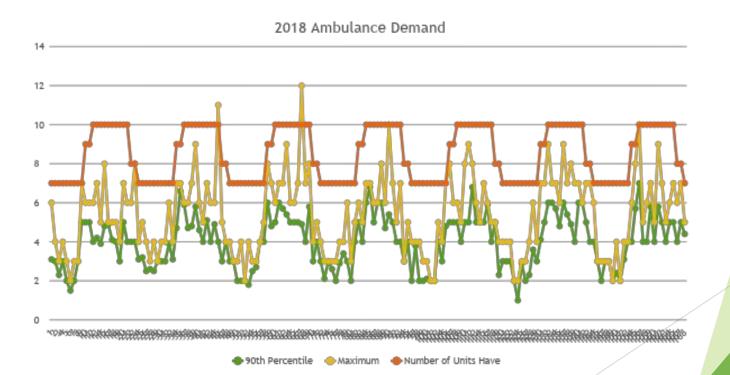
- Two processes together
- Ambulance Demand Analysis
 - How many responses per hour vs. how many ambulances available
 - Answers how many ambulances needed
- Ambulance Deployment Analysis
 - Where are the responses
 - Answers where the ambulances should be placed

Assumptions

- Response time goal is 12 minutes of less 90% of the time
- Deployable Units:
 - 7 24 hours per day
 - 3 12 hour per day peak load
- Response Unit Hour Utilization Goals:
 - Average response Unit Hour Utilization between 0.25 and 0.35
 - 90% of the time Response Unit Hour Utilization should be below 0.60

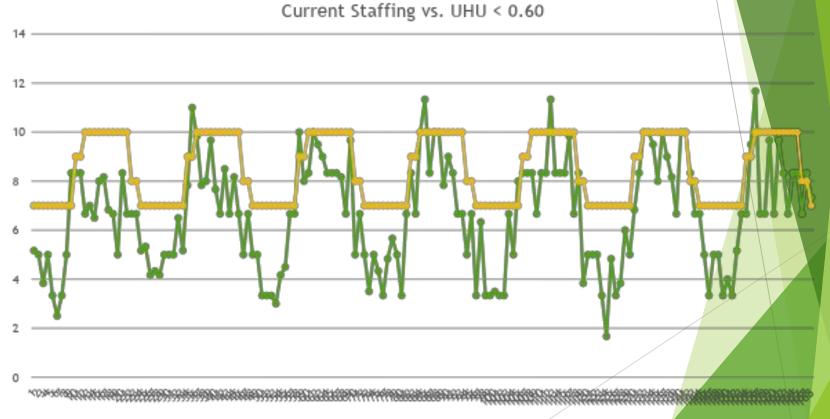
Ambulance Demand Analysis

- For each hour of day of each day of week determine:
 - 90th Percentile of calls for service
 - Maximum number of calls for service
 - Number of scheduled units for each hour



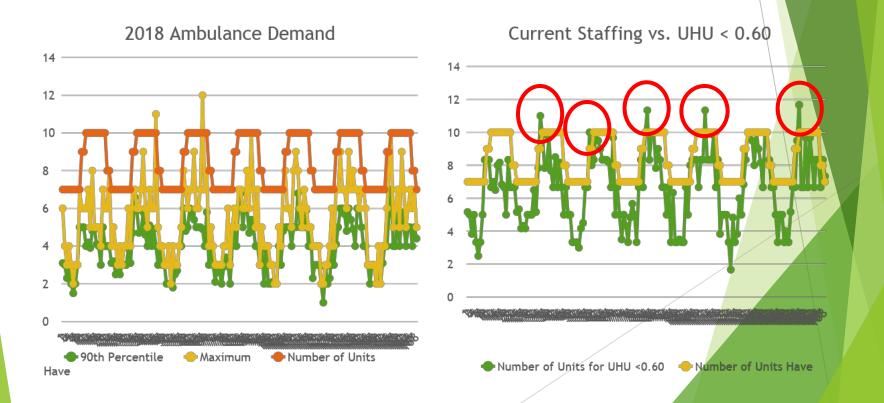
Ambulance Demand Analysis

- Based on 90th Percentile response volume determine:
 - Number of units needed for UHU less than 0.60 for each hour
 - Number of scheduled units for each hour



Ambulance Demand Analysis

- From all this we now know:
 - The expected response volume we will see
 - How many response units we need to staff for each hour
 - An idea of the hours we may be low on response resources

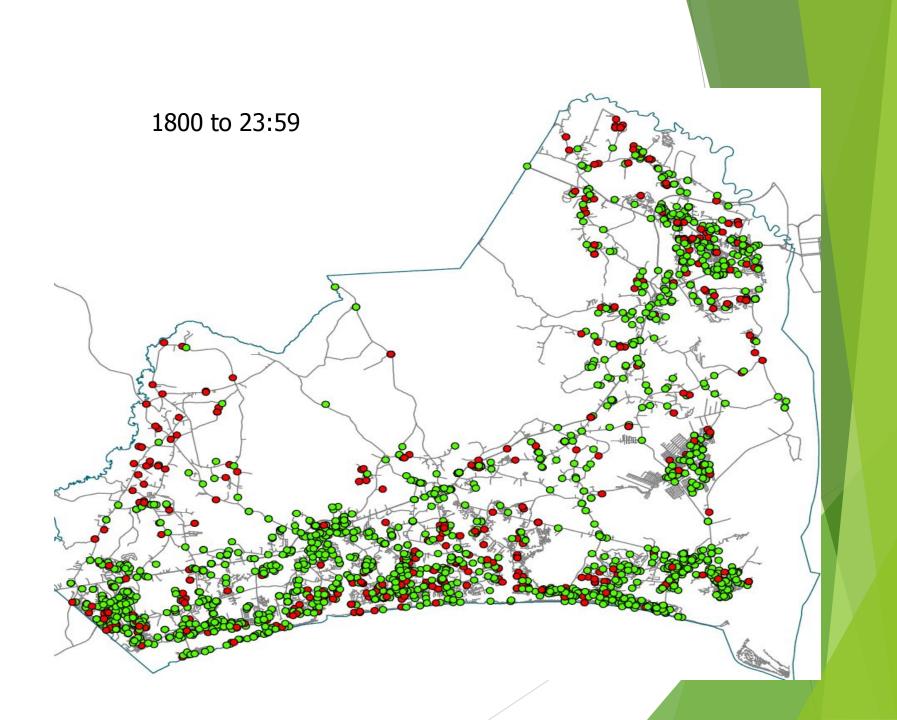


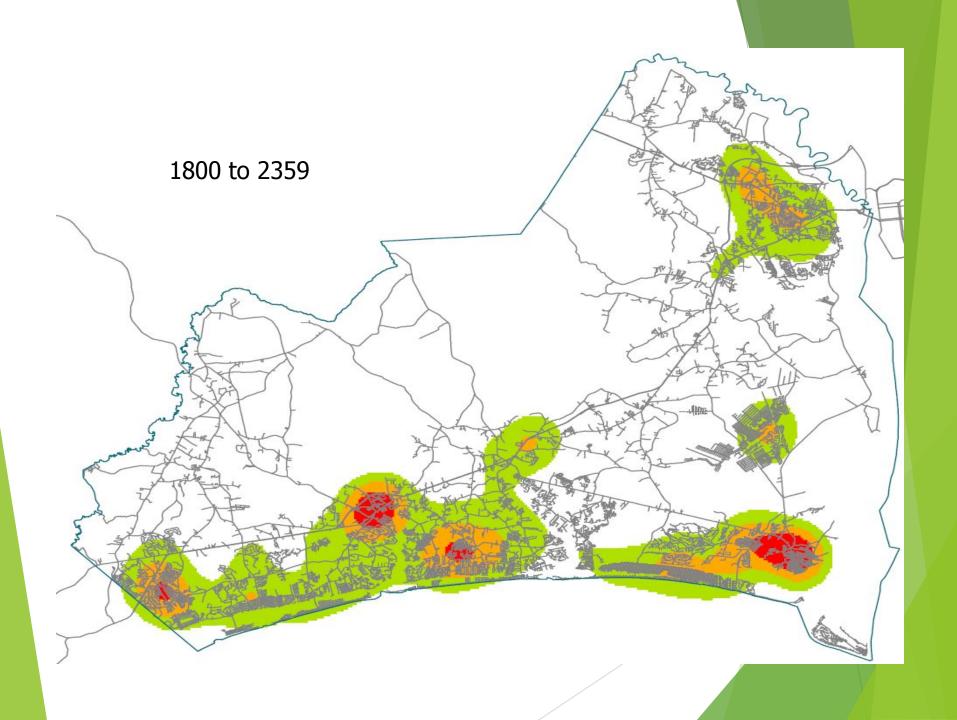
Ambulance Deployment Analysis

- Also designed to answer two questions:
 - Where are the responses located and are certain areas more dense than others
 - Where should we deploy units to get optimal response time

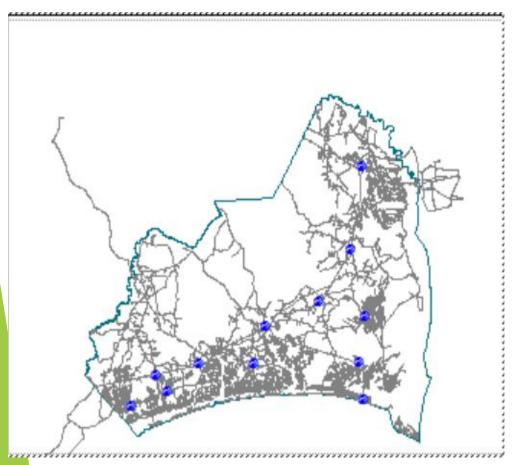
Process:

- Plot responses on a map
- Process a density map to look for hot spots
- Process a cost-allocation for resource availability from 1 to the number of units available
- Use the density map to determine where additional units should be deployed
- Build your system standby plan





2. Base and Post Locations

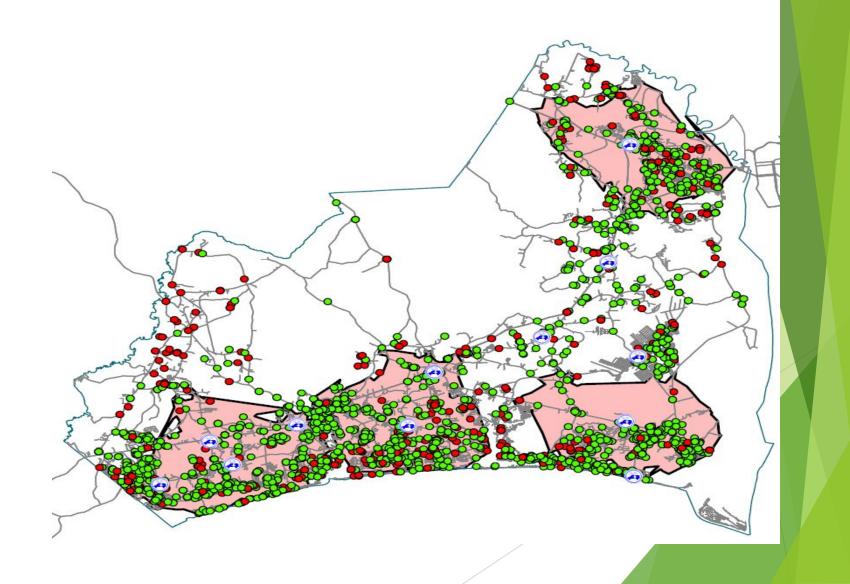


- Have 12 Locations for Post
 - 10 EMS Bases
 - 2 Street Corners
- Deployment during this time:
 - 1800-2100 10 Units
 - 2100-2300 8 Units
 - 2300-0000
 - 7 Units
- Deployment Strategy is:
 - 1-4 available units Geographic
 - Best place to get to all calls
 - 5-10 available units Demand
 - Best place to get best response time

Location Allocation for 4 Units Available

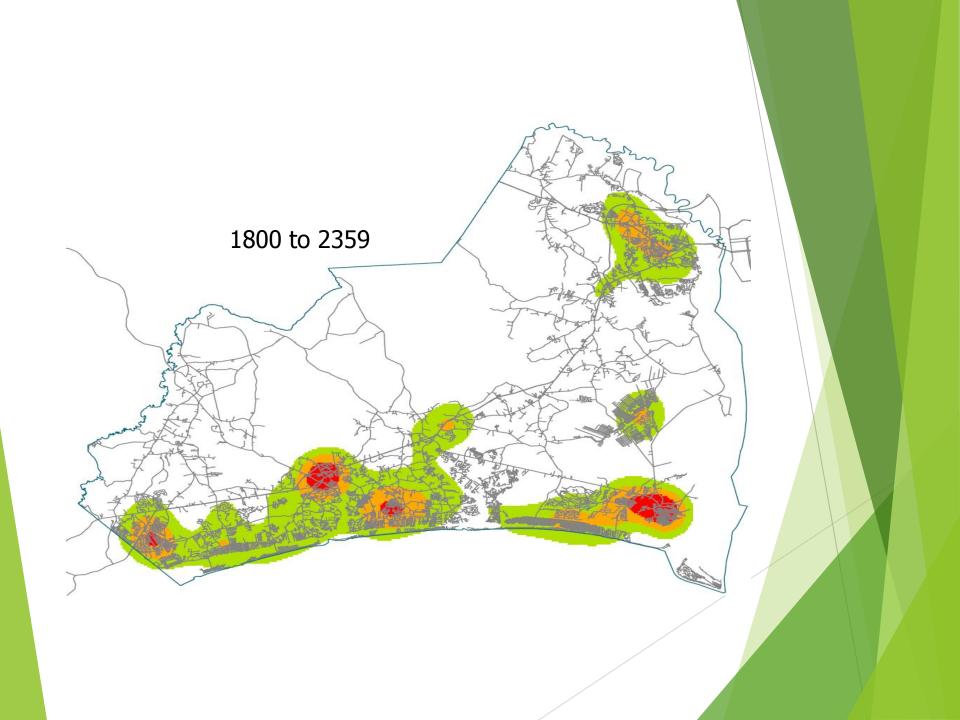


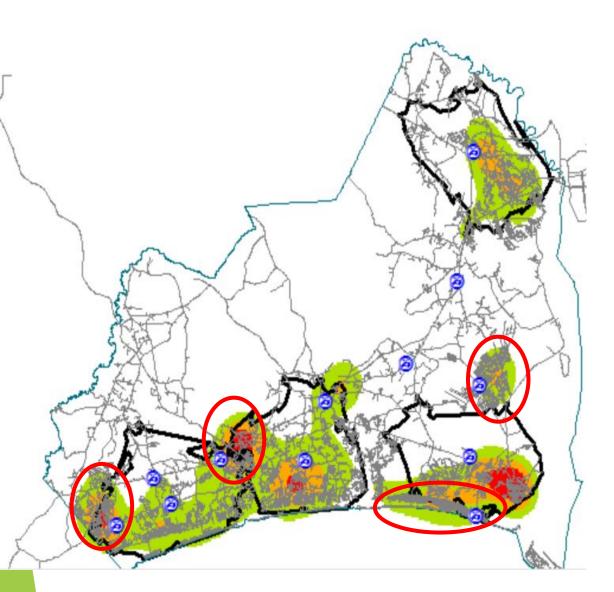
Coverage Potential at 12 Minutes with four units available (68%)



So where are we...

- What we know
 - We know how many responses we will have
 - We know how many resources are needed
 - We know where the responses will be
 - We know where the resources need to be to cover geographically
 - We know the response time compliance potential for up to four units available
- What we don't know:
 - Where to deploy the other units

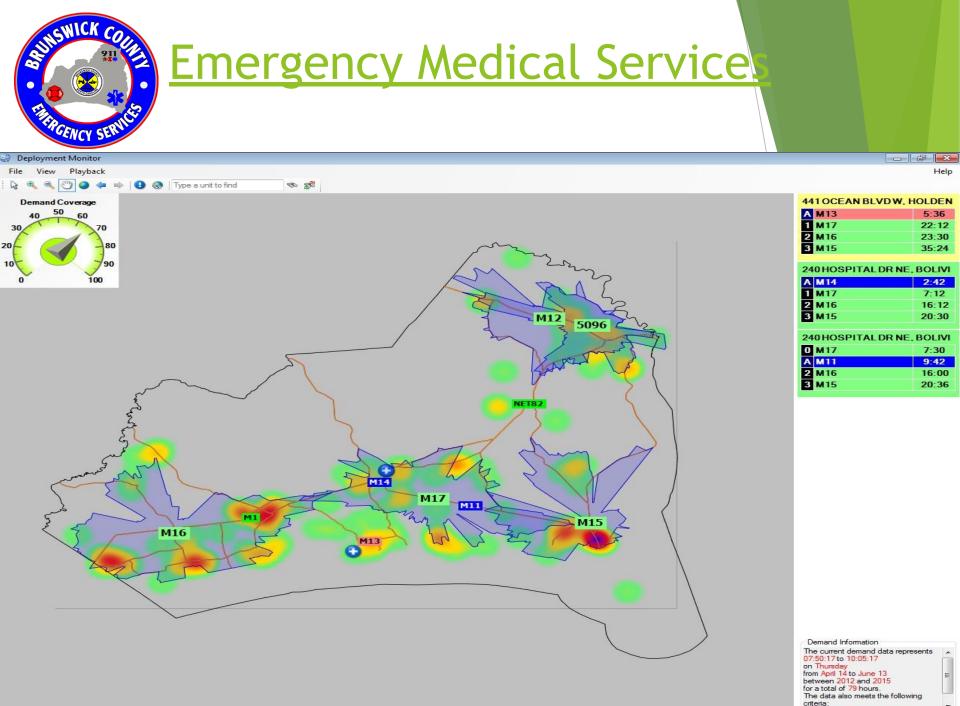


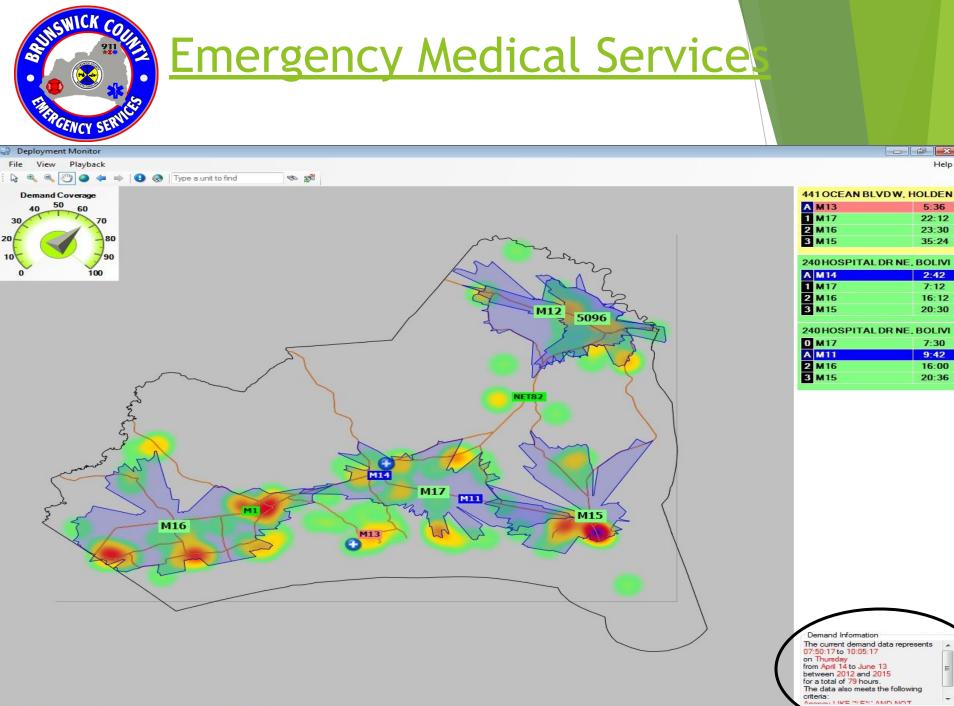


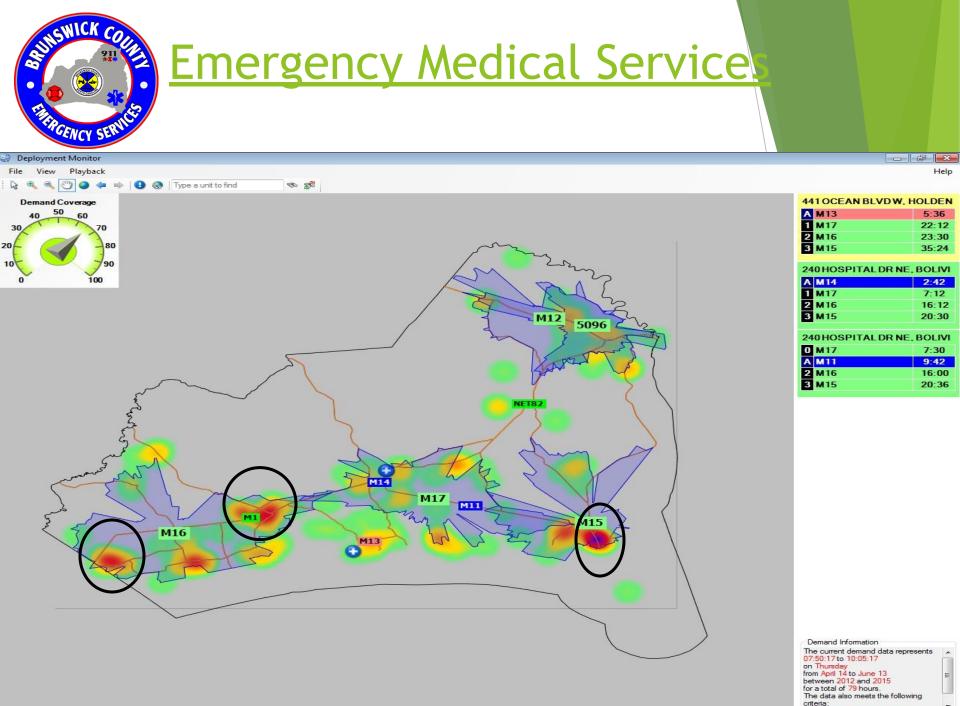
- Have 68% of responses covered
- Still have 6 units to deploy
- What higher density areas still not covered
- What areas may need double or triple covered

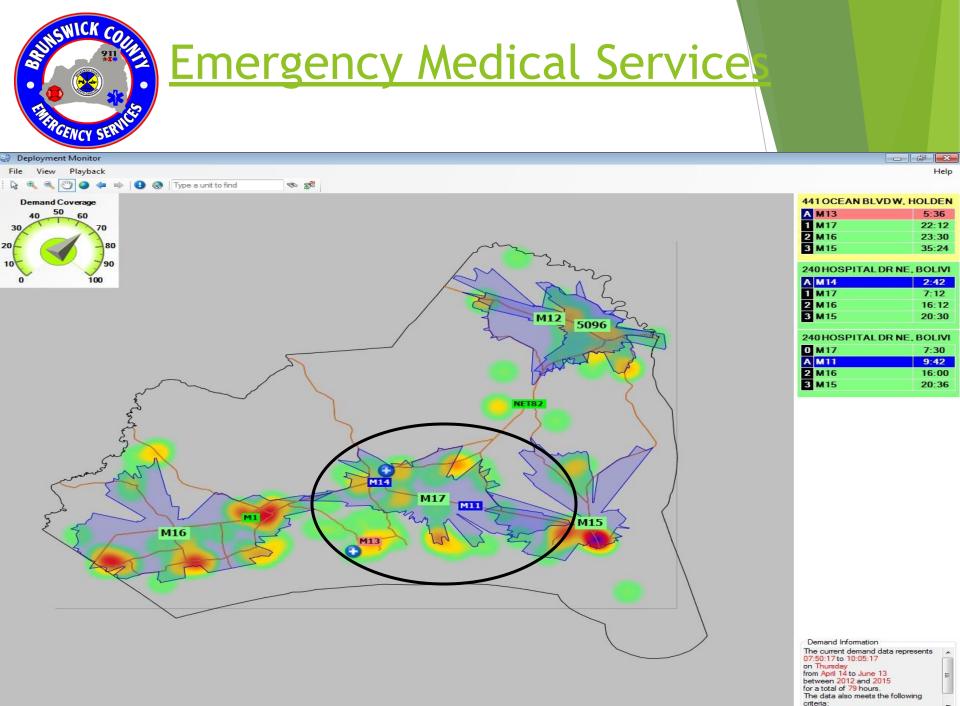
EMS System Deployment Plan (1800-0000)

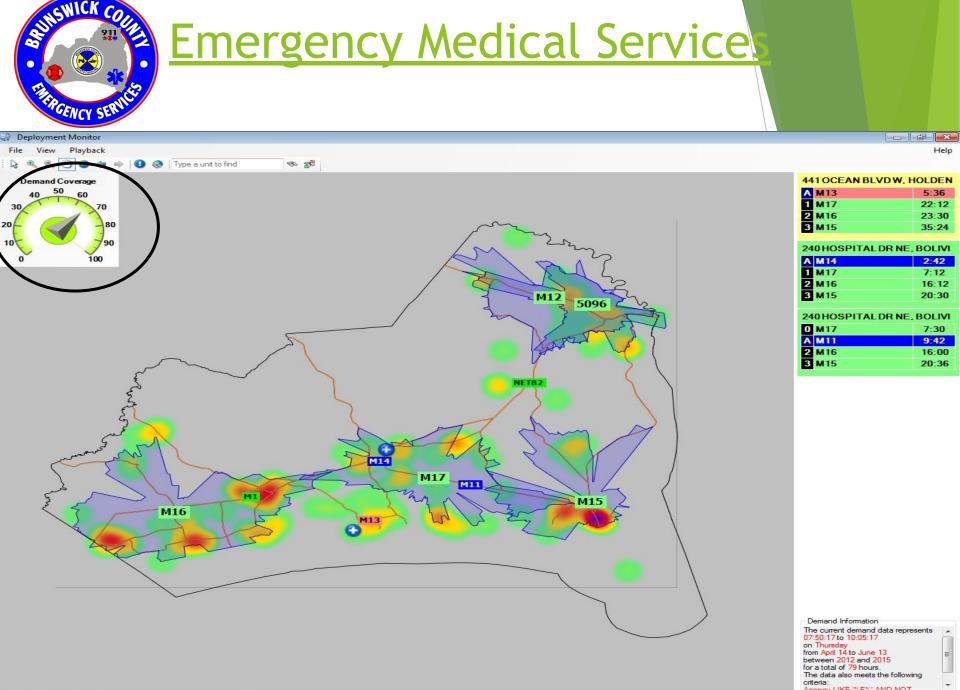
Units Availabl e	Locations									
1	211/17									
2	EMSHQ	Base 5								
3	EMSHQ	Base 2	Base 4							
4	Base 1	Base 2	Base 3	Base 4						
5	Base 1	Base 2	Base 3	Base 4	Base 5					
6	Base 1	Base 2	Base 3	Base 4	Base 5	EMSHQ				
7	Base 1	Base 2	Base 3	Base 4	Base 5	EMSHQ	Base 6			
8	Base 1	Base 2	Base 3	Base 4	Base 5	EMSHQ	Base 6	Base 7		
9	Base 1	Base 2	Base 3	Base 4	Base 5	EMSHQ	Base 6	Base 7	Base 8	
10	Base 1	Base 2	Base 3	Base 4	Base 5	EMSHQ	Base 6	Base 7	Base 8	EOC

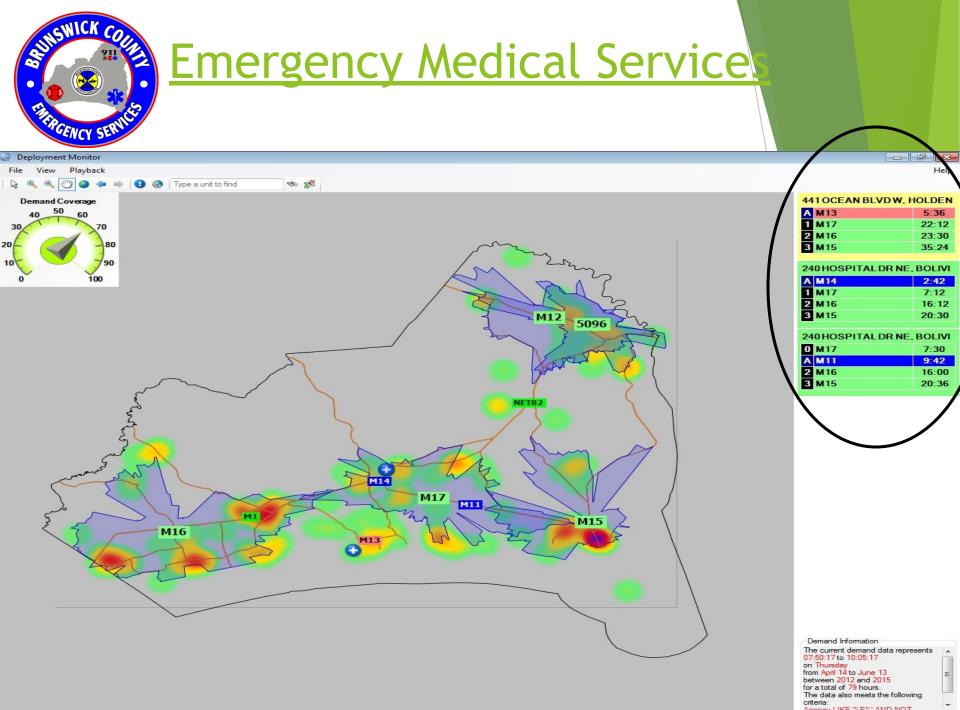














Emergency Management

- Coordinate the preparedness, response, recovery and mitigation for any disaster in Brunswick County.
- Task Include:
 - Planning for the Nuclear Power Plant
 - Writing and updating response plans
 - Conducts exercises to test those plans
 - Local Emergency Planning Committee
 - Incident Management



Emergency Management

- Employees
 - Director
 - Deputy Director
- Funding Sources
 - Local Funds
 - Duke/ Progress Energy
 - Emergency Management Performance Grant



Emergency Management

- Major Hazards
 - Hurricane/ Tropical Storm
 - Severe Weather / Flooding
 - Hazardous Materials
 - Brunswick Nuclear Plant
- Preparedness
- Response
- Recovery
- Mitigation

Brunswick County Hurricane Preparedness



- Brunswick County has been certified "StormReady" and "TsunamiReady" by the National Weather Service
 - This means that Brunswick County has fulfilled all necessary requirements such as 24-hour warning point, created a system to monitor local weather conditions and developed a formal hazardous weather plan

- If you or a loved one has a special need and may need assistance during a storm please call: (910)253-5383
- Brunswick County Special Needs Registry stores information of those with special needs.
- Those on the Special Needs Registry receive phone calls to ensure they are safe during a significant storm and subsequent evacuation if needed.



Questions