



2016 SAFER Grant Presentation

Nassau County Board of County Commissioners Meeting

August 28, 2017

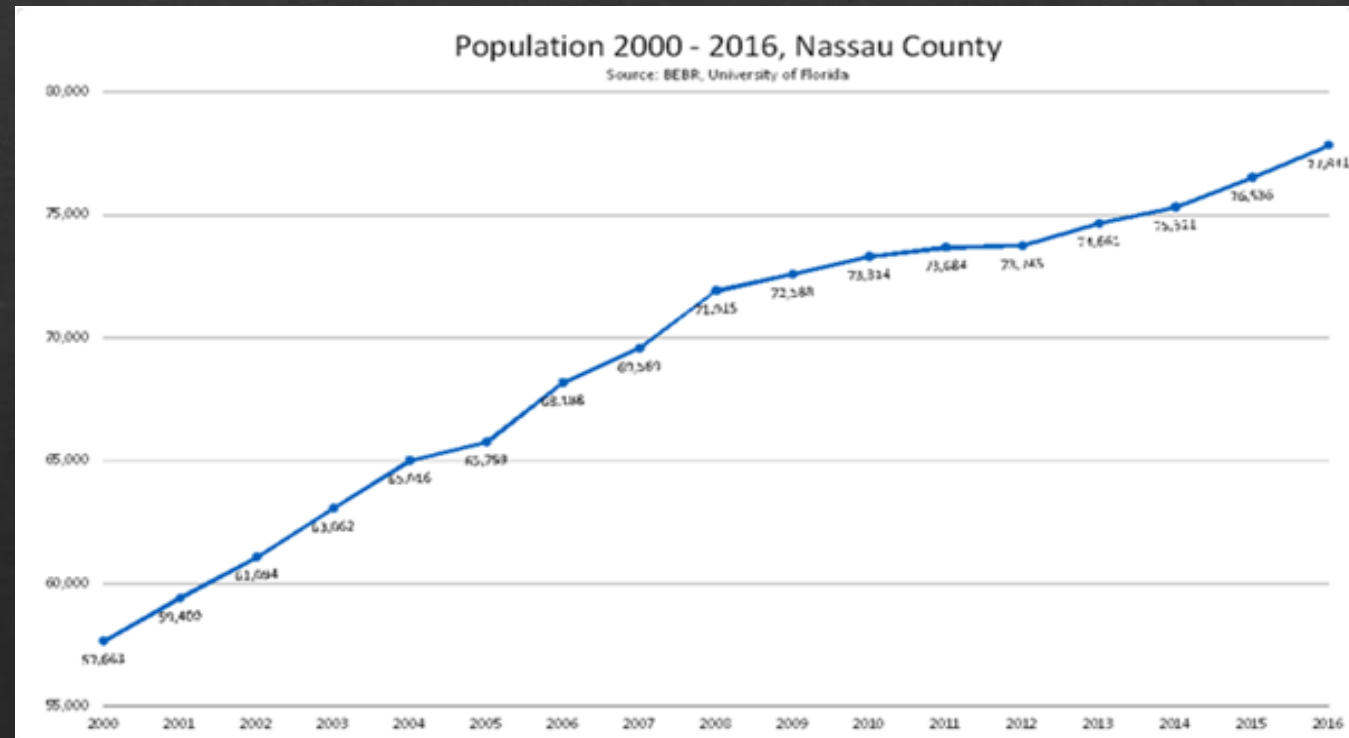
Brady Rigdon

Fire Chief



County Population Growth

- ◆ From 1970 to 2016 Nassau County's population has increased 277%
- ◆ From 2000 to 2016 a 35% increase was realized as indicated by the graph below



Source: Office of Economic & Demographic Research:

<http://edr.state.fl.us/Content/population-demographics/data/index-floridaproducts.cfm>

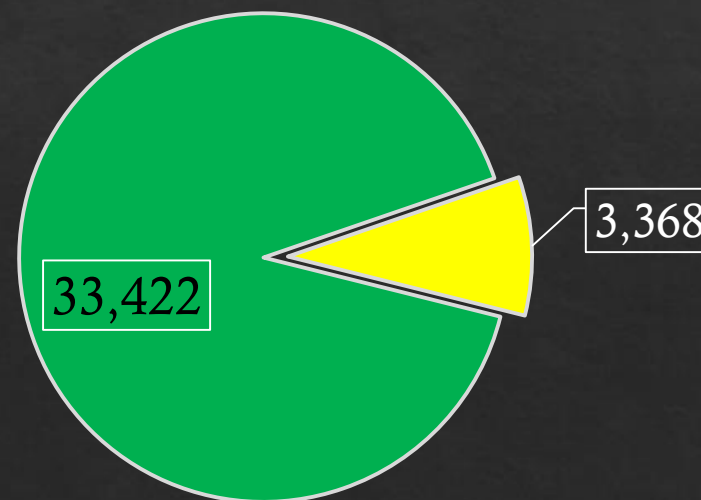


Tracked Entitled Developments

- ◆ Currently there are 36,800 Entitled Development Units approved
- ◆ Of those, 3,368 have been built
- ◆ This leaves a balance of 33,422 Entitled Development Units remaining to be built.

Tracked Entitled Developments

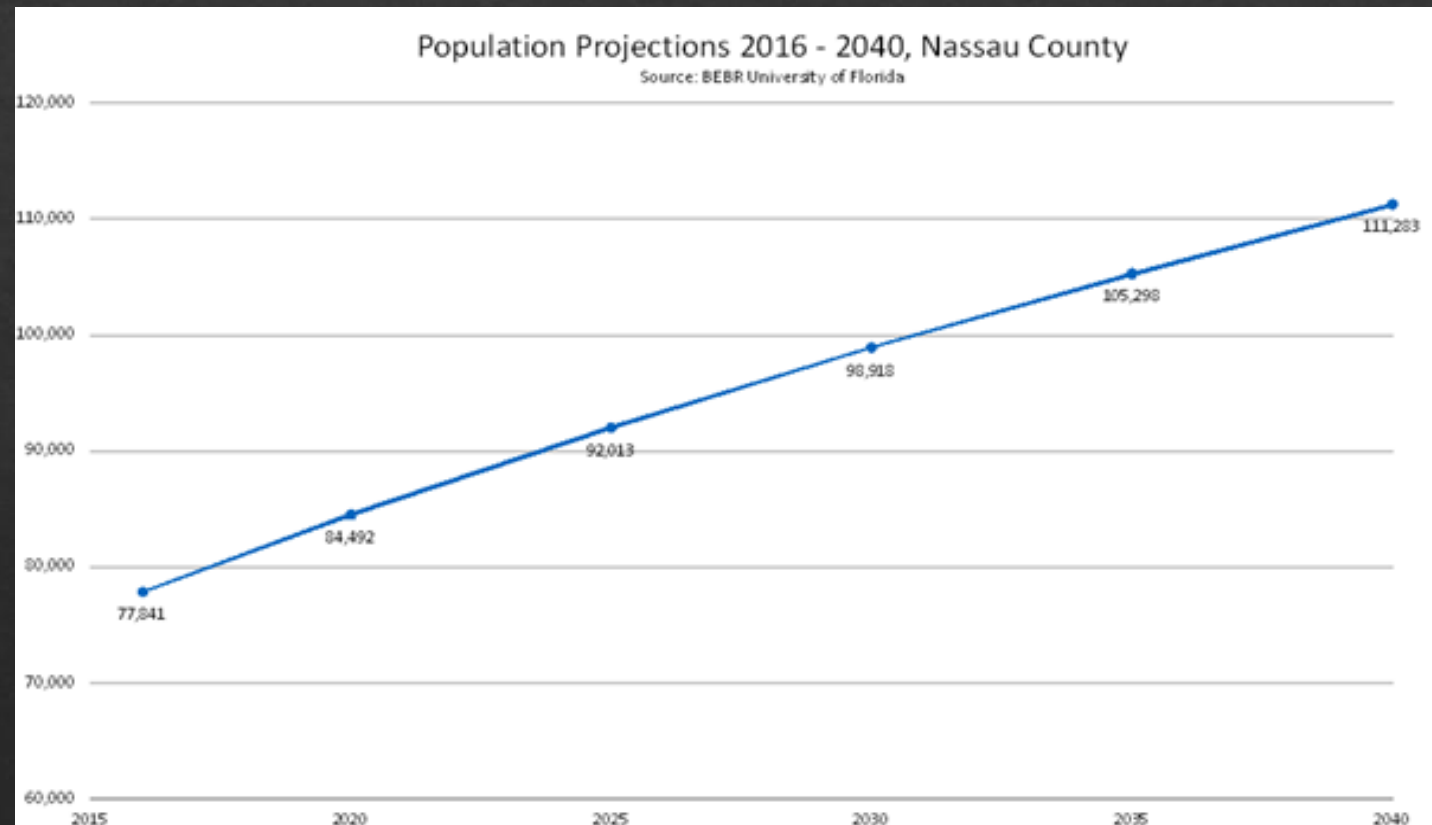
■ Unbuilt Units ■ Built





Predicted Future Growth

- ◆ From 2016 to 2025 projections indicate a growth of another 17% and by 2040 another 21%



Source: Residential Development Tracker. (2017, August 15). Retrieved from Nassau County Florida:
<http://www.nassaucountyfl.com/index.aspx?NID=786>



Fire Rescue Calls For Service

- ◆ In 2010 we responded to 7330 calls for service
- ◆ In 2016 we responded to 9142 calls for service which is almost a 25% increase from 2010
- ◆ With population increase the anticipated calls for service will only increase



Historical Fire Rescue Staffing Levels

Fiscal Year	Staffing Level	Notes
08/09	96	
09/10	96	
10/11	96	
11/12	93	Eliminated the 3 rd person on Tower-20
12/13	93	
13/14	93	
14/15	96	Added Tanker 40
15/16	102	Added Rescue 71
16/17	105	Added Battalion 2



NFPA

- ❖ The National Fire Protection Association (NFPA) is a non-profit organization known for providing codes and standards regarding life-safety to minimize the risk and effects of fire by establishing criteria for building, processing, design, service, and installation around the world.
- ❖ NFPA 1710 Chapter 5.2 recommends a minimum of 4 personnel on engine companies and a minimum of 4 on ladder companies for areas such as Nassau County
- ❖ Currently all of our engines ride with 2 people and our ladder from station 20 rides with 2 people.

Source: NFPA 1710. (2016). *NFPA 1710 Standard for the Organization and Deployment of Fire Suppression Operations, Emergency Medical Operations, and Special Operations to the Public by Career Fire Departments*. Quincy, MA, USA: NFPA. Pp 1710-10



NFPA

- ◆ NFPA also provides recommendations for the initial full assignment arriving on scene within 480 seconds (8 minutes). This initial assignment is for a normal 2-story, 2000 square foot home and consists of 14-15 personnel needed on scene and includes a breakdown of the functions they will perform
- ◆ If the structure is a commercial building such as an apartment complex or strip mall these numbers quickly escalate
- ◆ In order to get 15 people on scene we must dispatch 4 of our 7 stations

Source: NFPA 1710. (2016). *NFPA 1710 Standard for the Organization and Deployment of Fire Suppression Operations, Emergency Medical Operations, and Special Operations to the Public by Career Fire Departments*. Quincy, MA, USA: NFPA. pp. 1710-8



NIST

- ◆ In 2010, the National Institute of Standards and Technology (NIST) released NIST Technical Note 1661, Report on Residential Fireground Field Experiments.
- ◆ This report is an extensive study of, among other things, the effect the number of crew members and response times has on the outcome of the fire.
- ◆ The study used 22 common fireground tasks needing completion and tracked the times it took different crews to accomplish those tasks.
- ◆ A 3 person crew on average completed the tasks 96 seconds quicker than the 2 person crews.



Opportunity

- ◆ February 9, 2017 Nassau County Fire Rescue submitted a grant application to the U.S. Department of Homeland Security, Federal Emergency Management Agency
- ◆ Staffing for Adequate Fire and Emergency Response (SAFER)
- ◆ The intent of this grant is to help agencies move closer to meeting the staffing levels set forth in the National Fire Protection Association (NFPA) 1710



SAFER Grant Specifics

- ◆ Staffing for Adequate Fire and Emergency Response (SAFER)
- ◆ Grant funded by the U. S. Department of Homeland Security, Federal Emergency Management Agency (FEMA)
- ◆ This grant is a three year project with FEMA paying 75%, 75%, and 35% respectively of the salary and benefits for those three years
- ◆ Will help move us closer to meeting the NFPA recommendations and enhance fire response to the citizens we serve



Our Grant Request

- ◆ NCFR requested 15 full time firefighter positions to be used in a fire suppression capacity
- ◆ This will enable us to staff five of our seven engines with a third person on each of the three shifts



Grant Specifics

Year	17/18	18/19	19/20	Total
Personnel	742,995	742,995	742,995	2,228,985
Benefits	288,060	288,060	288,060	864,180
FEMA Share	773,291	773,291	360,869	1,907,451
Nassau County	257,764*	257,764	670,186	1,185,714
Total	1,031,055	1,031,055	1,031,055	3,093,165

- ◆ The SAFER grant also requires us to maintain our employee numbers at the current level plus the 15 new positions throughout the life of the grant. After the grant performance period is completed (3 years) the 15 positions would then be the full responsibility of Nassau County
- ◆ *Plus the initial cost of uniforms and turnout gear to outfit our new members (Approximately \$65,000)



Conclusion

- ◆ Benefits of accepting the SAFER Grant:
 - Provides us a tremendous opportunity to move the department closer to meeting the NFPA 1710 staffing guidelines.
 - Allow us to complete tasks on emergency scenes in a more timely manner with a more appropriate number of personnel
 - Provide a safer, more controlled environment on the fire scene
 - Provide an even better service to the citizens we serve by using this new resource of greater personnel to serve our citizens more expeditiously
 - Ultimately reduce property loss by being able to act and mitigate the situation more quickly



Questions?



References

- ◆ National Institute of Standards and Technology. (2010). *Report on Residential Fireground Field Experiments*. Washington, D.C.: U.S. Department of Commerce.
- ◆ NFPA 1710. (2016). *NFPA 1710 Standard for the Organization and Deployment of Fire Suppression Operations, Emergency Medical Operations, and Special Operations to the Public by Career Fire Departments*. Quincy, MA, USA: NFPA.
- ◆ *Population: 1970-2045*. (2017, August 21). Retrieved from Office of Economic & Demographic Research:
<http://edr.state.fl.us/Content/population-demographics/data/index-floridaproducts.cfm>
- ◆ *Residential Development Tracker*. (2017, August 15). Retrieved from Nassau County Florida:
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