

# Understanding Long Term Florida Master Gardener Retention Rates

FOR THE

#GATORGOOD

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# Introduction

- Master Gardener (MG) volunteers are a huge part of the Extension mission!
- Extension succeeds in recruiting & educating volunteers
- However, we fail in retaining volunteers, particularly past four years
- Avg. long term retention is historically around 2 MGs per class in Walton County
- “Poor” retention (<25% after 4 years) was measured & defined in Walton via the VMS & anecdotal evidence from county coordinators & state program leader



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FLORIDA  
**MASTER**  
**GARDENER**  
VOLUNTEER

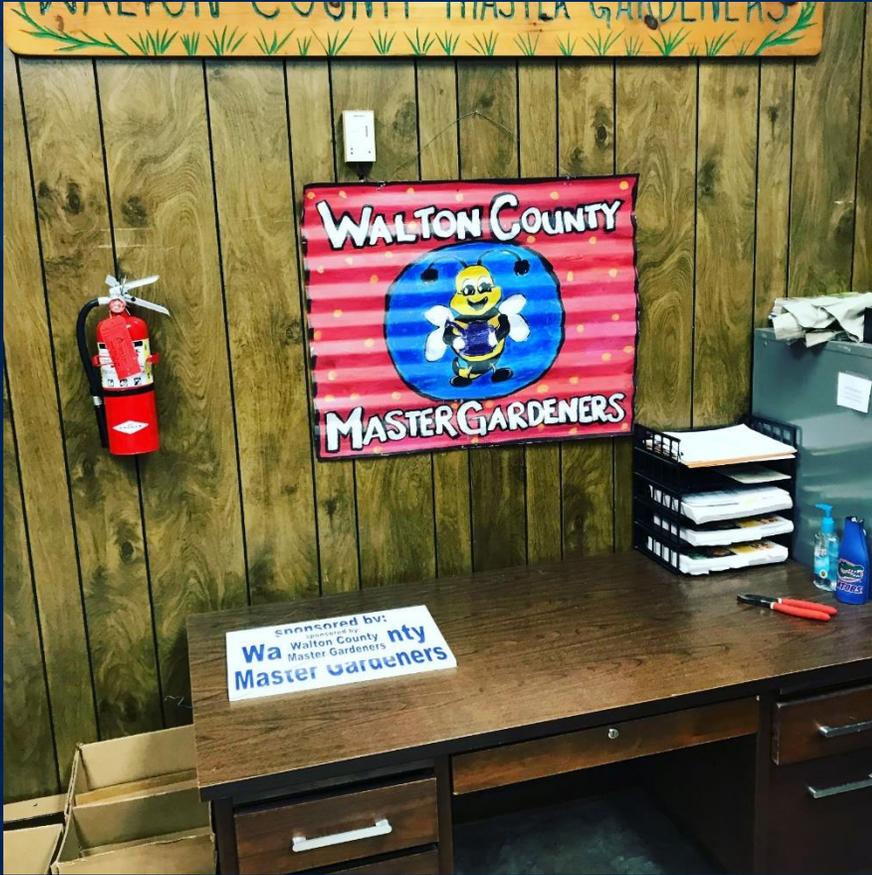
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# Why should we care about retention?

- Obviously we don't even *want* to retain everyone
- Some volunteers leave for reasons we can't predict/control
- However, costs to retrain new volunteers are *much* higher than maintaining existing volunteers
- AND retention of existing volunteers is more time efficient.
- Time & effort to retrain new volunteers to stay at replacement level is substantial!



# Purpose of this study



- There is little research outlining how to influence retention in volunteers
- However, Strong & Harder (2011) did identify the importance of motivational characteristics in MG *participation* statewide

# Purpose of this study



- Strong & Harder's research informed this study.
- Recommended further study on effect demographics and motivations have on MG tenure.
- Also, surmised recommended study would be beneficial to coordinators as a tool to better attract volunteers, predict volunteer tenure, and serve volunteer needs





Let's Dive into the Study!

# Methodology

Two objectives:

- 1. Describe demographic, motivational orientations, and volunteerism preferences among MGs both active & inactive in the program.*
- 2. Determine if relationships between demographics, motivations, volunteerism preferences & MG tenure beyond 4 years exists.*

# Methodology

- To identify motivations, a version of Mergener's (1979) Education Participation Scale (M-EPS) adapted by Strong (2011) was used
- Measures 6 constructs: *Learning, Socialization, Community Service, Vary Routine, Professional Enhancement, & Other's Perceptions*
- M-EPS construct variables measured on 5-point scale (1 = *very much influence* - 5 = *very little influence*)
- Example variables included: *"To feed an appetite for knowledge", "To Participate in Group Activities", "To Provide a Contrast from the Rest of My Life", etc.*
- Mean responses for individual variables and overall constructs were recorded

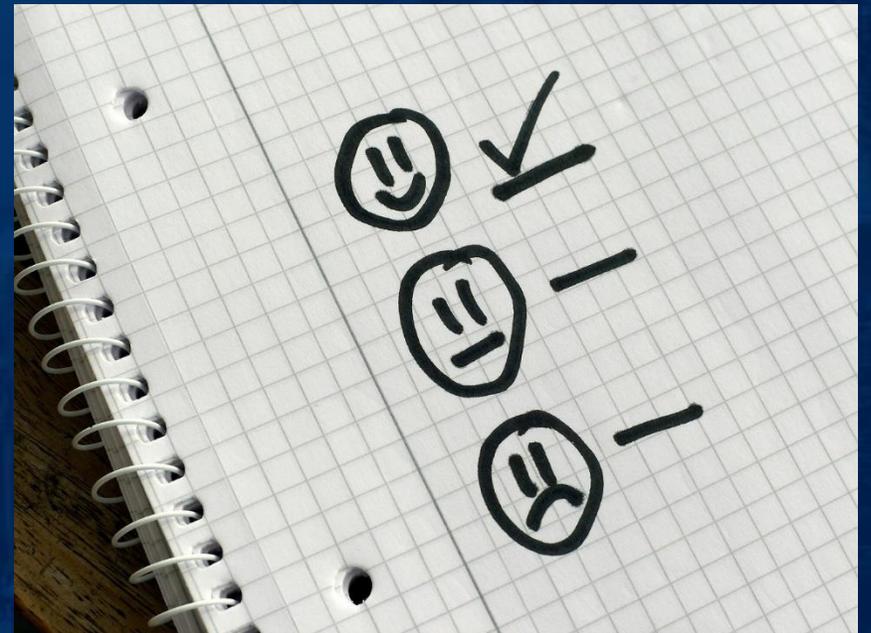
# Methodology

- To identify demographics, 8 questions were asked (*age, occupation, education, race, & gender*)
- To measure volunteerism preferences, 4 questions were asked (*prefer finite or ongoing projects, favorite types of educational projects, and an open ended question regarding their experience with the program*)



# Methodology

- Qualtrics surveys were emailed to 169 participants with 25 undeliverable (email address no longer valid).
- Of the 144 surveys successfully sent, 60 completed their survey (42% response rate) – tested for nonresponse
- Respondents were *super* homogenous. (Well-educated, high-income, white women – per MG norms)



# Methodology

- Data was recorded using SPSS software for Windows
- To measure data in Obj. 1, descriptive statistics were used:
  - ✓ Demographic & volunteerism data reported in frequency tables
  - ✓ Motivational data reported frequency, mean for variable/construct, and SD
- To measure data in Obj. 2,
  - ✓ For motivational data, independent samples t-tests were used
  - ✓ For demographic and volunteerism data, chi-square tests were used

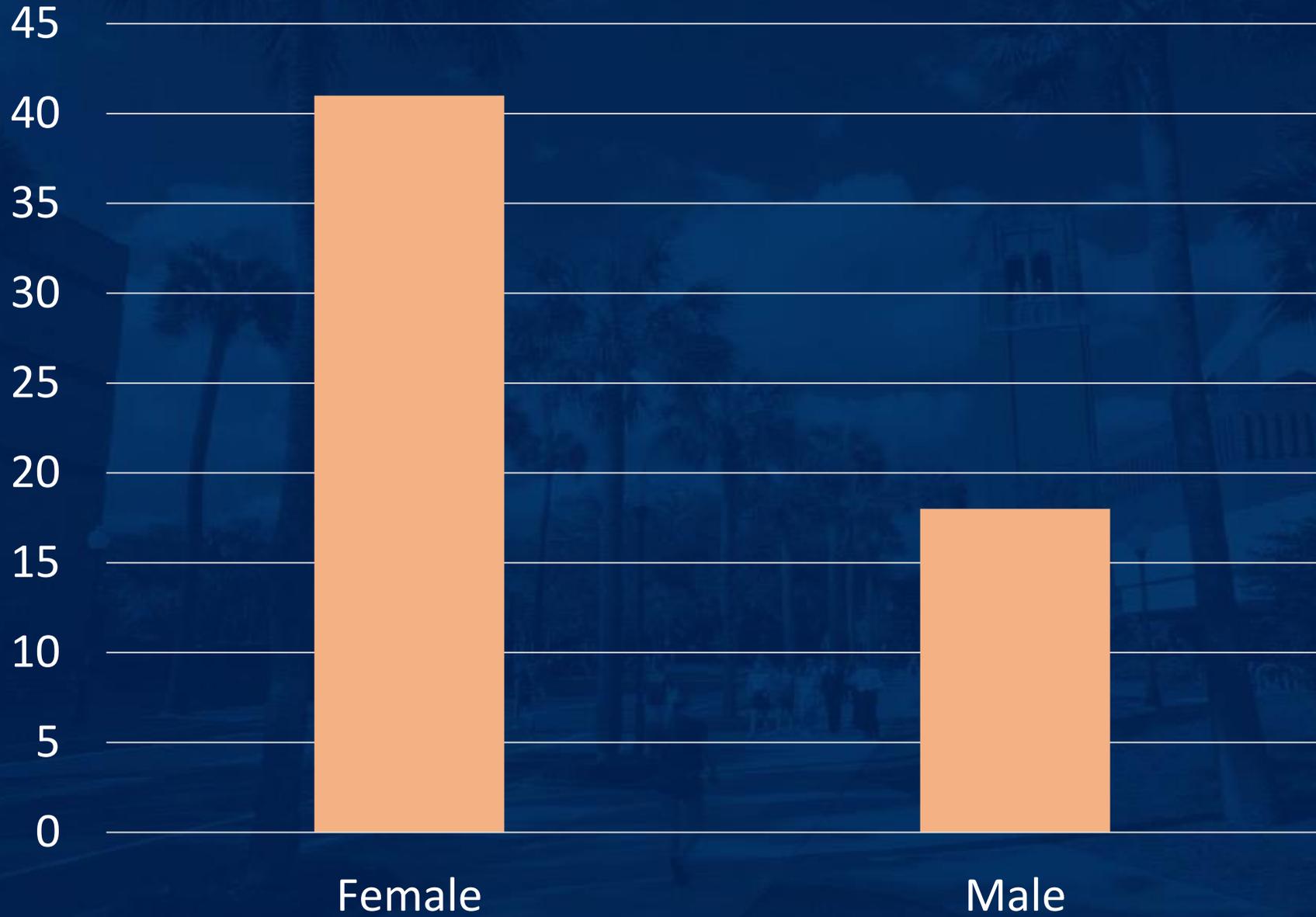
# Findings: Objective 1

Describe demographic, motivational orientations, and volunteerism preferences among MGs both active & inactive in the program.

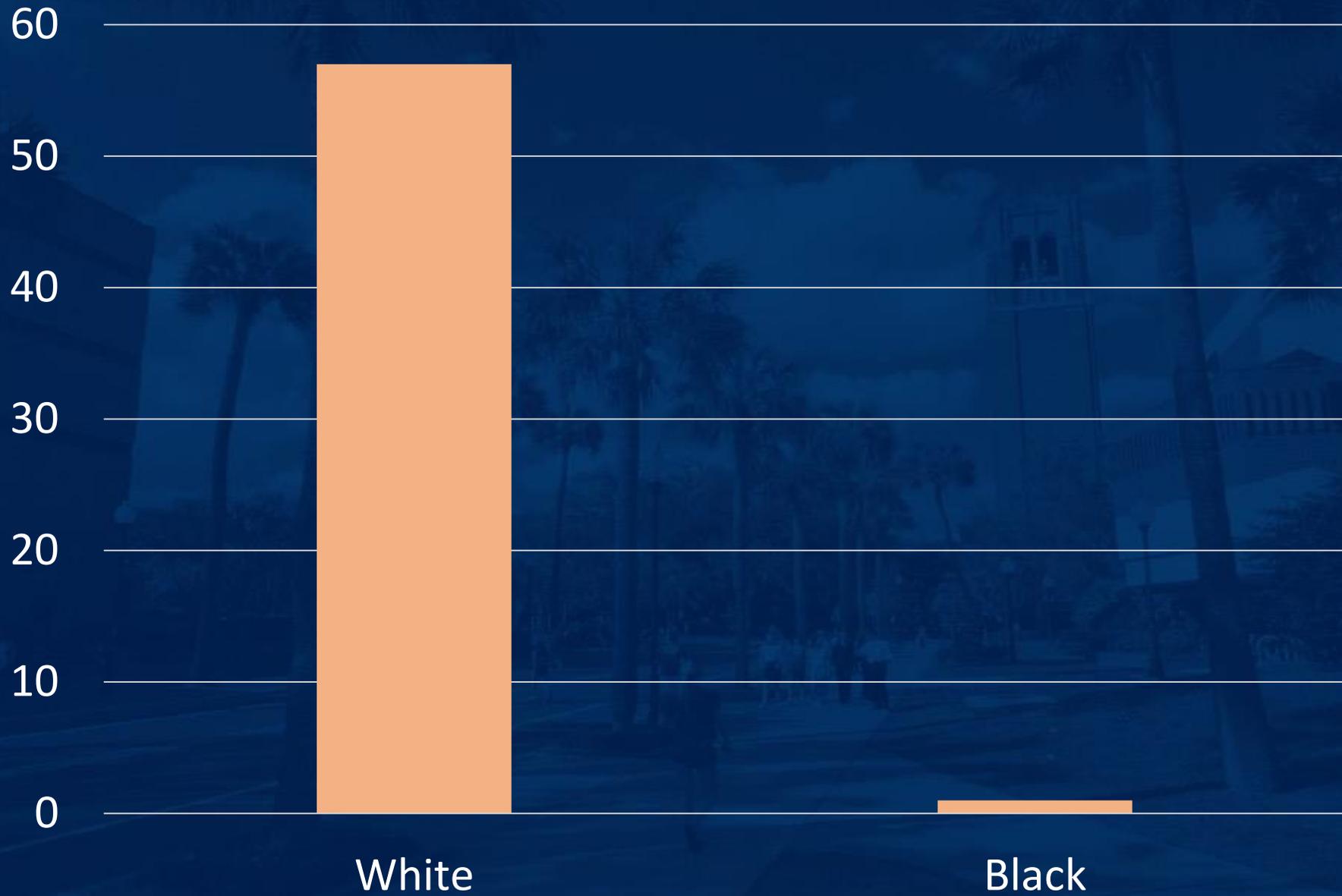
# Findings: Objective 1 (Demographics)

- A majority of survey respondents were:
  - ✓ White (n = 57, 97%)
  - ✓ Female (n = 41, 70%)
  - ✓ 66 years old or older (n = 45, 78%)
  - ✓ Had at least a 4 year college degree (n = 38, 64%)
  - ✓ Had a median annual income of more than \$75k (n = 35, 69%)

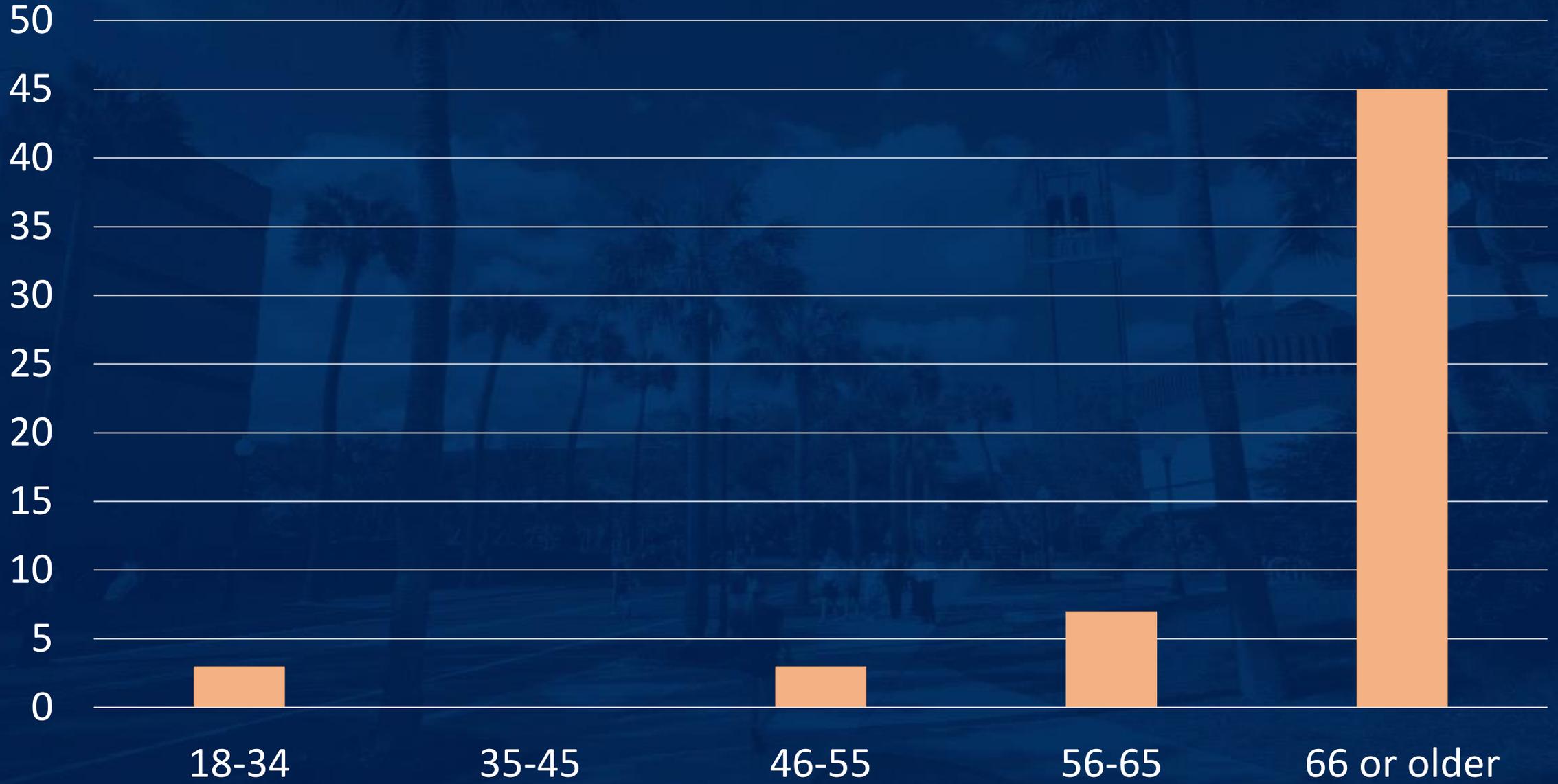
# Gender



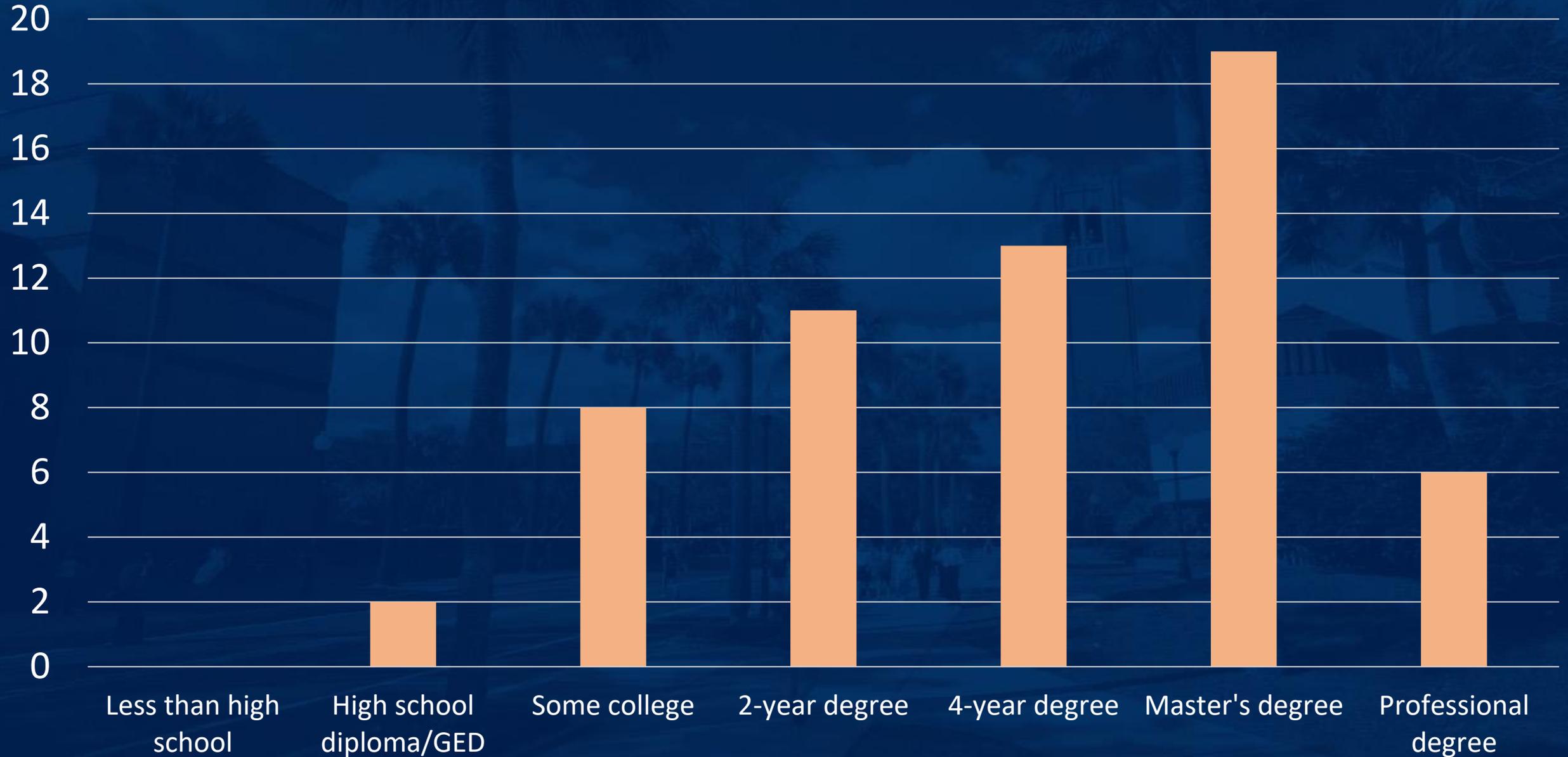
# Ethnicity



# Age



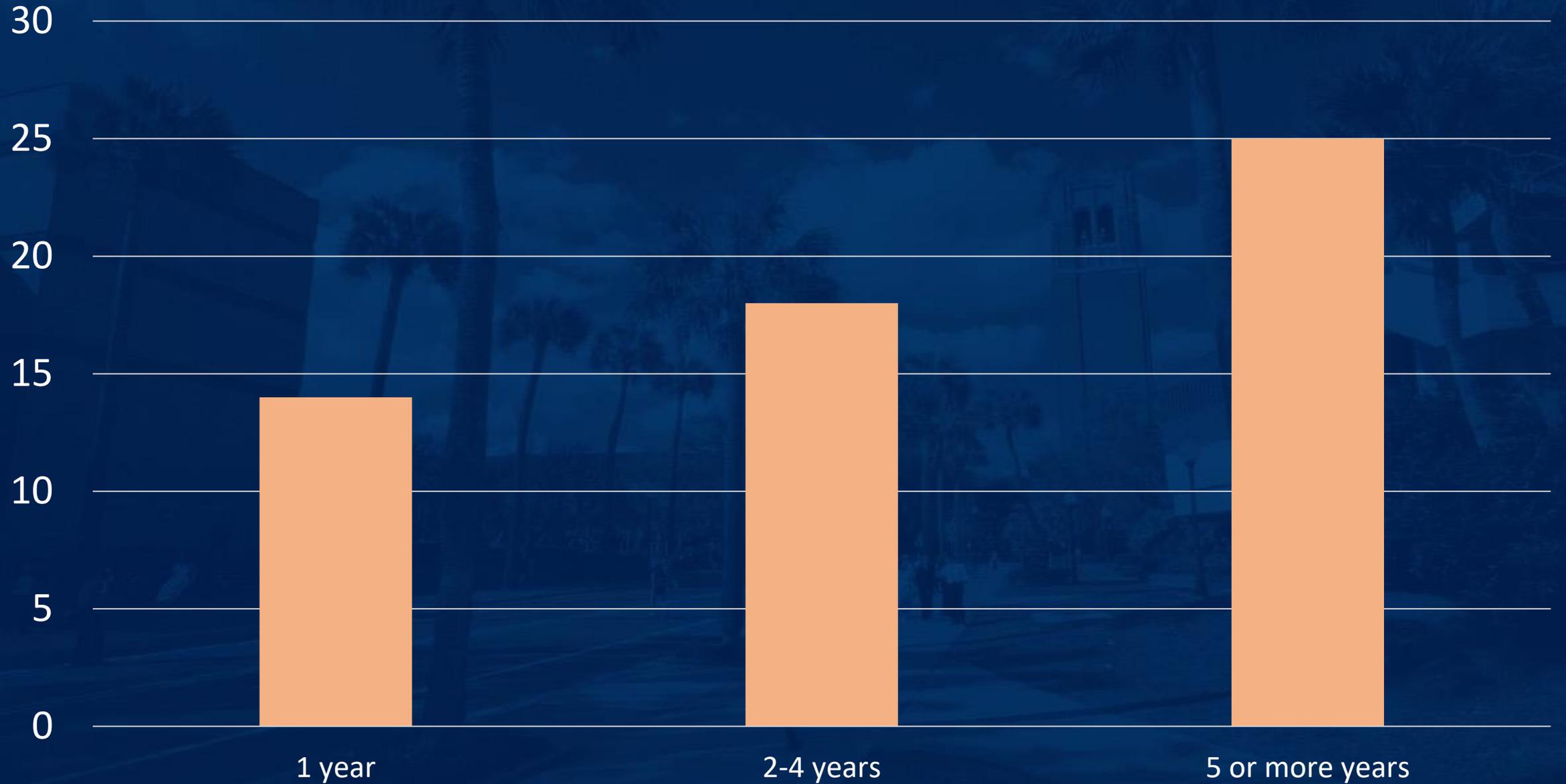
# Education Level



# Income



# Years of Active Service



# Findings: Objective 1 (Motivations)

- Learning was perceived to have “*much influence*” on volunteer participation
- Community Service & Socialization perceived to have “*moderate influence*”
- Vary Routine perceived to have “*little influence*”
- Professional Enhancement and Other’s Perceptions had no influence on participation



<b>Constructs &amp; Items</b>	<b>N</b>	<b>M</b>	<b>SD</b>
<b>Learning</b>	59	1.7401	.67755
<b>Community Service</b>	57	2.1368	.83252
<b>Socialization</b>	58	2.2931	.95749
<b>Vary Routine</b>	58	3.4113	.98941
<b>Professional Enhancement</b>	56	4.5357	.69114
<b>Other's Perceptions</b>	57	4.3947	.82233

**Note. Scale: 1 = very much influence, 2 = much influence, 3 = moderate influence, 4 = little influence, = no influence.**

# Findings: Objective 1 (Volunteer Preferences)



- Volunteers prefer projects that involve personal learning, giving back to their community and an opportunity for socialization!

Preference	<i>f</i>	%
Delivering oral presentations/programs	22	36.1
Exhibits at fairs/festivals/markets	24	39.3
Demonstration garden development	28	45.9
Writing newsletter/articles	14	23
4-H youth activities	15	24.6
Publicity/Advertising	5	8.2
Greenhouse propagation	14	23
Community service projects	35	57.4
Fundraising activities	12	19.7
Facilitating meetings/trainings	37	60.7
Committee leadership	13	21.3
Volunteer development	3	4.9

# Findings: Objective 2

Determine if relationships between demographics, motivations, volunteerism preferences & MG tenure beyond 4 years exists.

# Findings: Objective 2 (Demographics' Effect on Tenure)

- There was a significant difference in respondents' tenure by gender – women more likely to remain active long-term
- No other significant differences in tenure by other demographic characteristics (homogenous, small sample likely played a role and this should be studied more!)



Demographic Characteristics	Active		Inactive		X <sup>2</sup>	p	φ
	f	%	F	%			
<b>Education Level</b>							
Less than high school	0	0	0	0	2.445	.928	2.93
High School Diploma/GED	1	5%	0	0			
Some college	3	15%	2	22.2%			
2-year college degree	6	30%	2	22.2%			
4-year college degree	2	10%	0	0			
Master's Degree	5	25%	4	44.4%			
Doctoral/Professional Degree	3	15%	1	11.1%			
<b>Income</b>							
\$24,999 or less	0	0	1	14.3	2.869	.769	.348
\$25,000 to \$49,999	1	5.9	0	0			
\$50,000 to \$74,999	3	17.6	1	14.3			
\$75,000 to \$99,000	3	17.6	1	14.3			
\$100,000 or more	10	58.8	4	57.1			
<b>Gender</b>							
Male	2	10%	5	55.6%	7.034	.016	-.493
Female	18	90%	4	44.4%			

# Findings: Objective 2 (Motivational Orientation Effect on Tenure)

- No significant difference observed between motivational orientations of long-term MGs and whether or not they remained active
- However, when the samples were amended to define “long-term” as 5 years or more, differences began to appear
- Also, this comparison confirms that learning, community service and socialization were primary reasons for volunteerism regardless of volunteer status

Constructs	N	Mean Rank	SD	Mann-Whitney U	p
<b>Learning</b>					
Active	20	14.93	.77	88.5	.945
Inactive	9	15.17	.76376		
<b>Community Service</b>					
Active	20	14.85	.7821	87.0	.908
Inactive	9	15.33	.78174		
<b>Socialization</b>					
Active	20	15.08	.80125	88.5	.945
Inactive	9	14.83	.55478		
<b>Vary Routine</b>					
Active	20	14.53	.89811	80.5	.660
Inactive	9	16.06	1.21429		
<b>Professional Enhancement</b>					
Active	20	15.55	.56034	79.0	.627
Inactive	9	13.78	.55551		
<b>Other's Perceptions</b>					
Active	20	14.88	.77332	87.5	.908
Inactive	9	15.28	.46956		

Note: \*p < .05.

# Findings: Objective 2 (Volunteerism Preference Effect on Tenure)

- No significant differences were found among active and inactive MG volunteers in any of the volunteerism preferences categories

# Conclusions

- A majority of Master Gardener volunteers continue to be highly educated white females more than 66 years old with an annual income over \$75,000.
- MGs overwhelmingly volunteer to continue learning, give back to their community and cultivate social experiences
- MGs prefer volunteer activities that hit the “sweet spot” of the above three constructs
- Not only are females more likely to participate as MGs in general, they are significantly more likely to remain active long-term

# How to Use this Information/Recommendations

1. MG coordinators can better meet volunteers' needs if they better understand the makeup and motivations of their volunteers
2. Coordinators should focus programming to correspond with the 3 primary motivational orientations influencing MG volunteerism
3. Volunteers may become disenchanted and leave the program when these needs aren't met!
4. Florida MGs continue to lack diversity among all demographic measures. Coordinators should seek strategies to overcome this.
5. This study should be replicated across the state to determine if the small, homogenous sample accounted for lack of differences among active & inactive volunteers

# References

- Bobbitt, V. (1997). The Washington State University Master Gardener program: Cultivating plants, people, and communities for 25 years. *HortTechnology*, 7(4), 345-347. Retrieved June 18, 2019 from <https://journals.ashs.org/horttech/view/journals/horttech/7/4/article-p345.xml>.
- Boshier, R. (1971). Motivational orientations of adult education participants: A factor analytic exploration of Houle's typology. *Adult Education Journal*, 21(2), 3-26. <https://doi.org/10.1177/074171367102100201>
- Boyd, B. L. (2004). Extension agents as administrators of volunteers: Competencies needed for the future. *Journal of Extension*, 42(4). Retrieved March 2, 2019, from <http://www.joe.org/joe/2004april/a4.php>
- Dillman, D. A., Smyth, J. D., & Christian, L. M. (2009). *Internet, mail and mixed-mode surveys: The Tailored Design Method* (3rd ed.). New York, NY: John Wiley & Sons.
- Houle, C. O. (1961). *The inquiring mind*. Madison, WI: University of Wisconsin Press.

# References

- Mergener, M. A. (1979). The motivational orientations of pharmacists toward continuing education. *Dissertation Abstracts International*, 39(08), 3775B. (UMI No. 7820638)
- Meyer, M. H., & Hanchek, A. M. (1997). Master Gardener training costs and payback in volunteer hours. *HortTechnology*, 7(4), 368-370.  
<https://doi.org/10.21273/HORTTECH.7.4.368>
- Relf, D., & McDaniel, A. (1994). Assessing Master Gardener priorities. *HortTechnology*, 4(2), 181-184. <https://doi.org/10.21273/HORTTECH.4.2.181>
- Ruppert, K. C., Bradshaw, J., & Stewart, A. Z. (1997). The Florida Master Gardener program: History, use and trends. *HortTechnology*, 7(4), 348-353.  
<https://doi.org/10.21273/HORTTECH.7.4.348>
- Strong, R., & Harder, A. (2011). The Effects of Florida Master Gardener Characteristics and Motivations on Program Participation. *Journal of Extension*, 49(5). Retrieved February 1, 2019 from <https://www.joe.org/joe/2011october/a10.php>.
- J Sykes (2019, January 7). A Look Towards the New Year. Retrieved from <https://flmastergardener.wordpress.com/2019/01/07/a-look-towards-the-new-year/>.