

7 November 2018

## Quarterly Report Board of Trustees

# Research AND INNOVATION



## Accelerating Discovery

### KEY NUMBERS

- Introduction to Customer Discovery training, done in conjunction with Michigan Technological University, and the national I-Corps program sponsored by the National Science Foundation advances intellectual property and start-up companies
  - 11 teams started in October – 4 from engineering, 3 from business, 2 from elsewhere at WMU, and 2 from the community at large
- Research and Sponsored Program awards for FY 18 were \$25.8 million, topped by College of Education and Human Development.
- Federal awards were \$14.5 million, up over FY 17
- WMU received 207 awards with the largest number in the College of Arts and Sciences.
- Grants and contracts submitted were \$112.8 million
- New research development events on finding funding and applying to the National Institutes of Health showed >100% growth in attendance over FY 17.

### COLLABORATION / INTERNAL DEVELOPMENT

- OVPR sponsored the first Innovation Networking Session on Opioids, with 63 attending; the next Innovation Networking Session on PFAS and other emerging contaminants will be held on Nov. 15

### NEW HIGHLIGHTED GRANTS

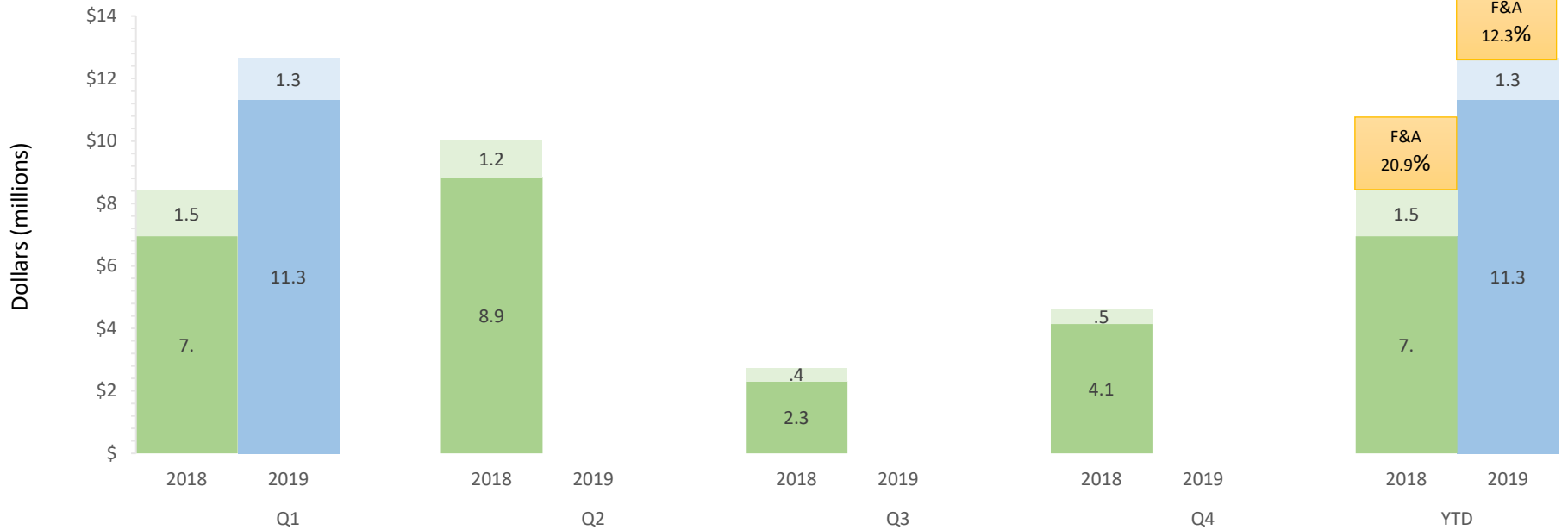
- Devin Bloom, Systematics and Evolution of Migration of *Clupeiformes*, National Science Foundation, \$699,310
- Clement Burns and Co-PIs, Acquisition of a Physical Properties Measurement System, National Science Foundation, \$621,618
- Massood Atashbar, "Condition Monitoring Sensor Array," Boeing Corporation, \$200,000

### DISTINCTIONS

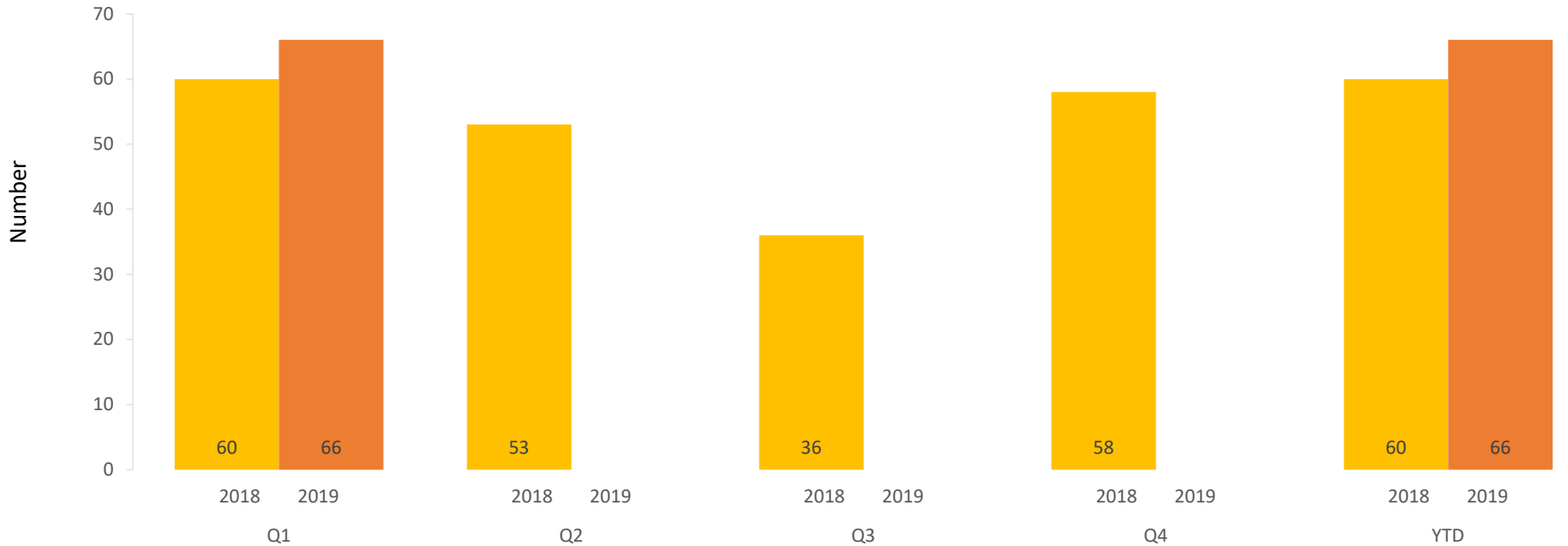
- The Association of Public and Land-Grant Universities' Council on Research has named its second cohort of **CoR Research Leader Fellows**, with Dr. Sherine Obare, associate VP for research, among the seven in this select group of senior research officers chosen from the nation's public research universities.
- Technology and Innovation Advancement — U.S. Patent No. 9,943,128, *Helmet Impact Monitoring System*, was awarded to WMU on April 17, 2018, for a novel printed, sensor technology that monitors impacts to the head that can result in concussions. It enables "point-of-impact mapping" of head trauma around the skull that no other system on the market provides.
- Lemmer, Kristina (2017). Propulsion for CubeSats, *Acta Astronautica*, 134, 231-243. **Most highly cited faculty paper this year to date of recent WMU publications.**

# WMU Award Dollars

F & A - ■ ■  
 Direct - ■ ■

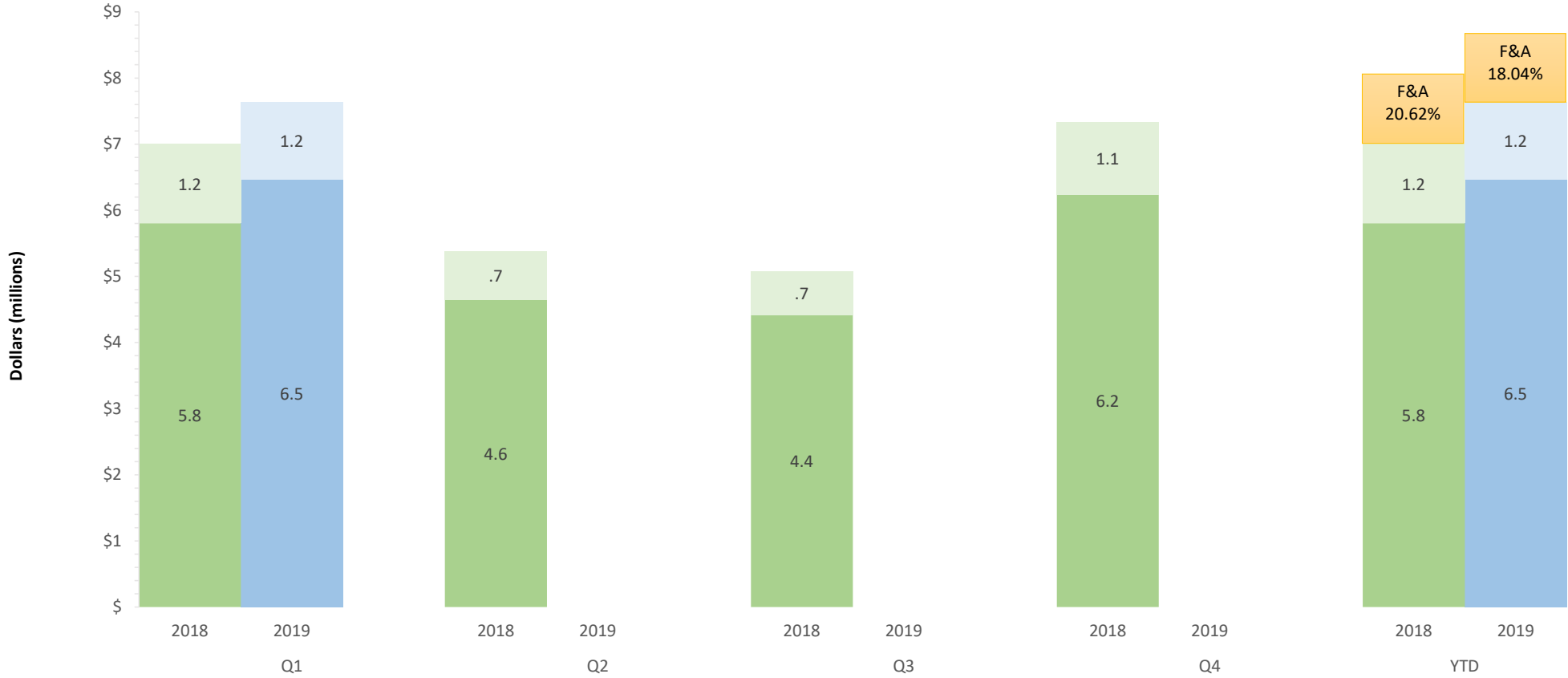


# WMU Number of Awards

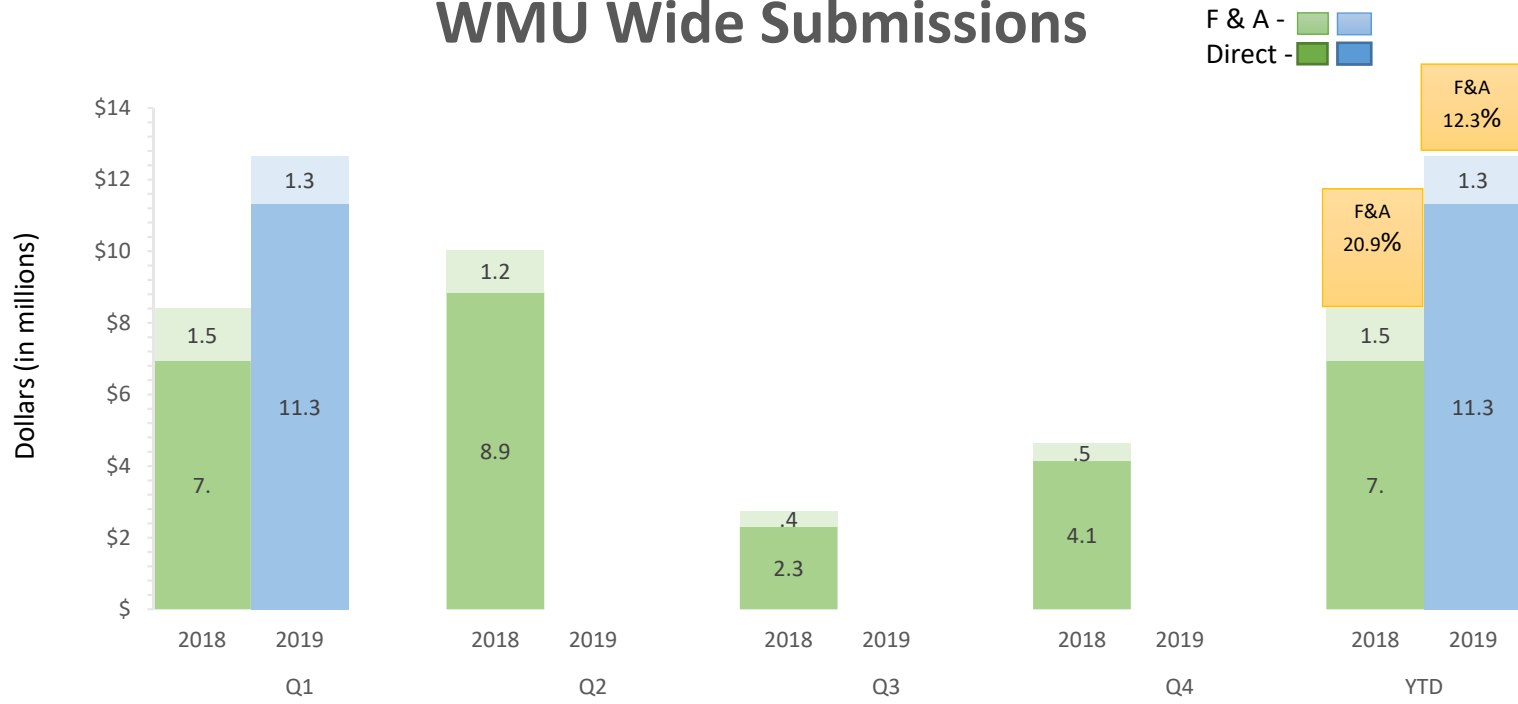


# WMU Expenditure Dollars

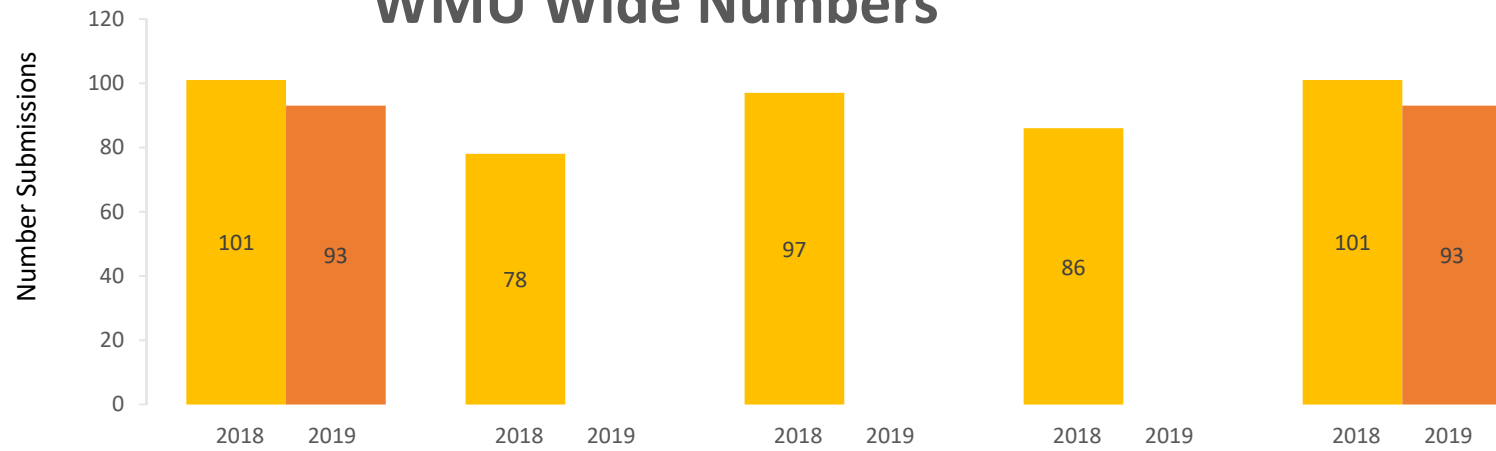
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# WMU Wide Submissions



# WMU Wide Numbers

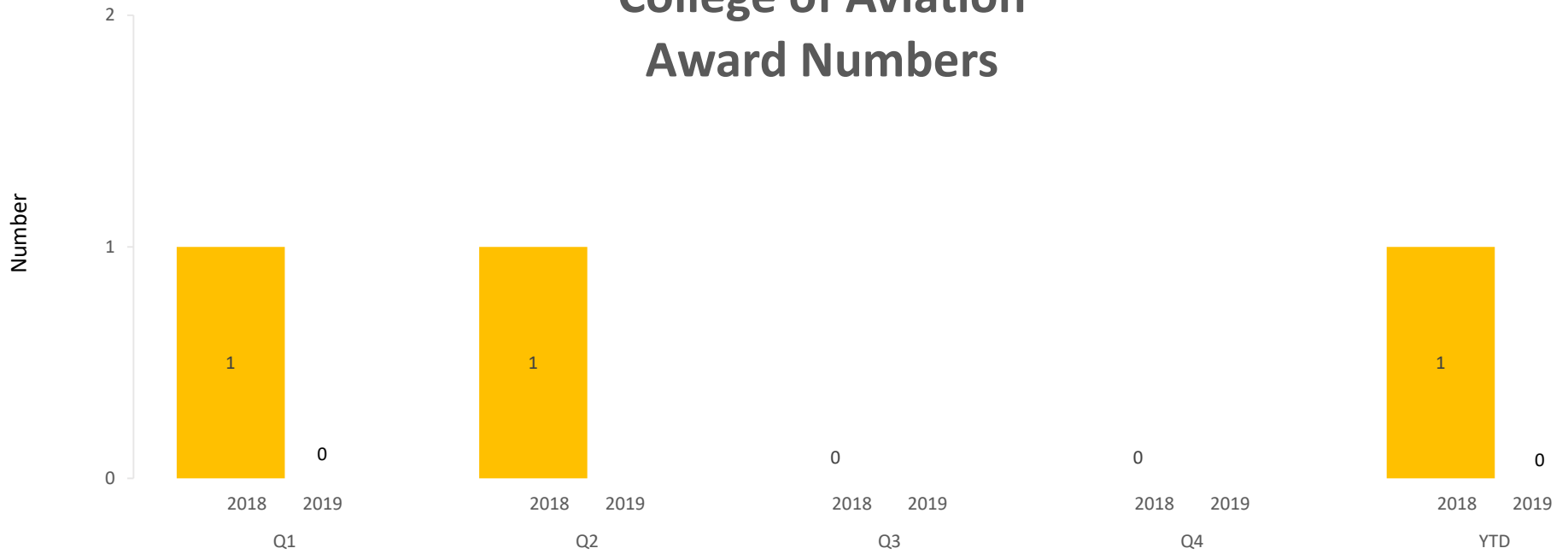


# College of Aviation Award Dollars

F & A - ■ ■  
Direct - ■ ■

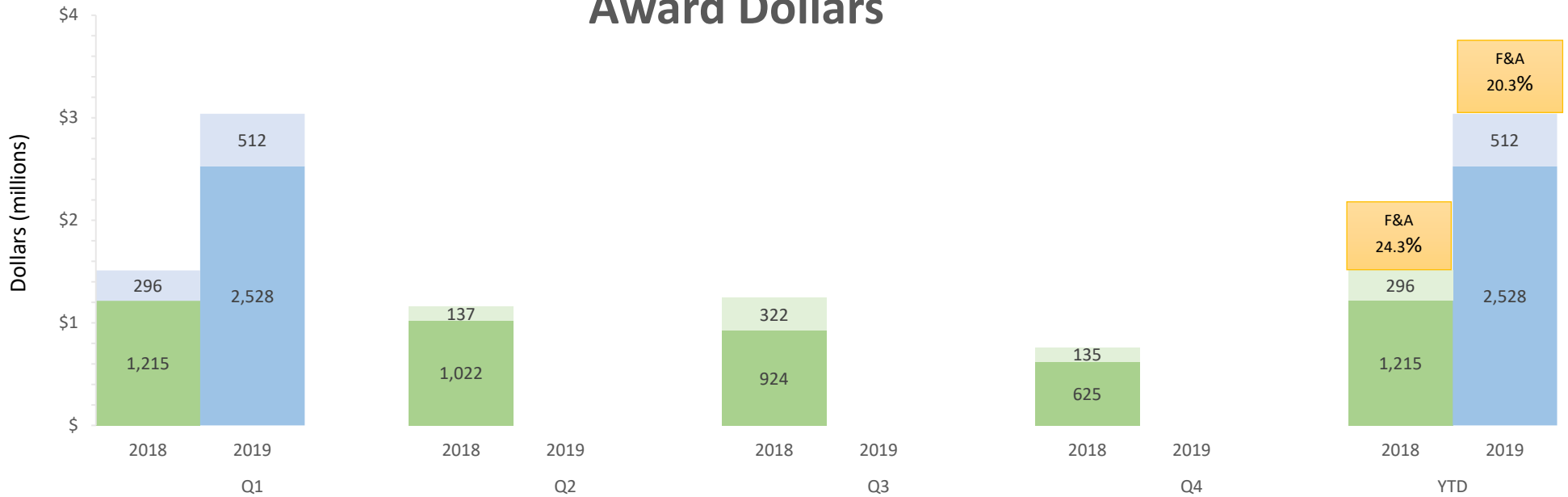


# College of Aviation Award Numbers

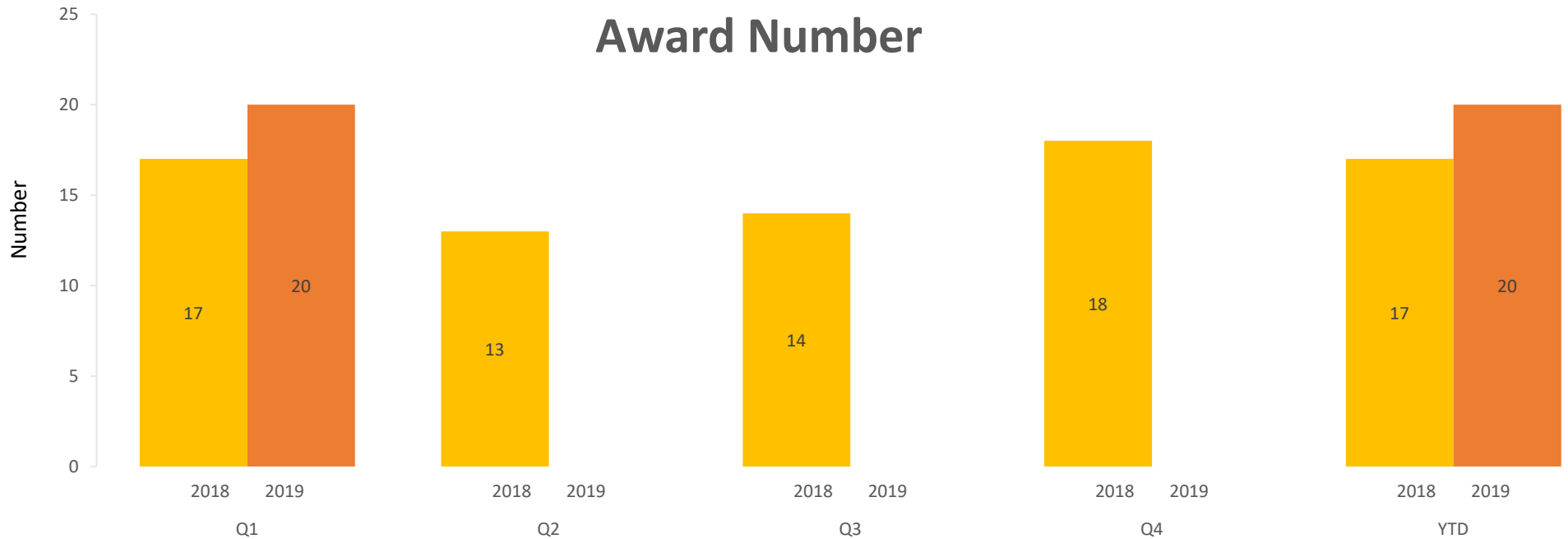


# College of Arts and Sciences Award Dollars

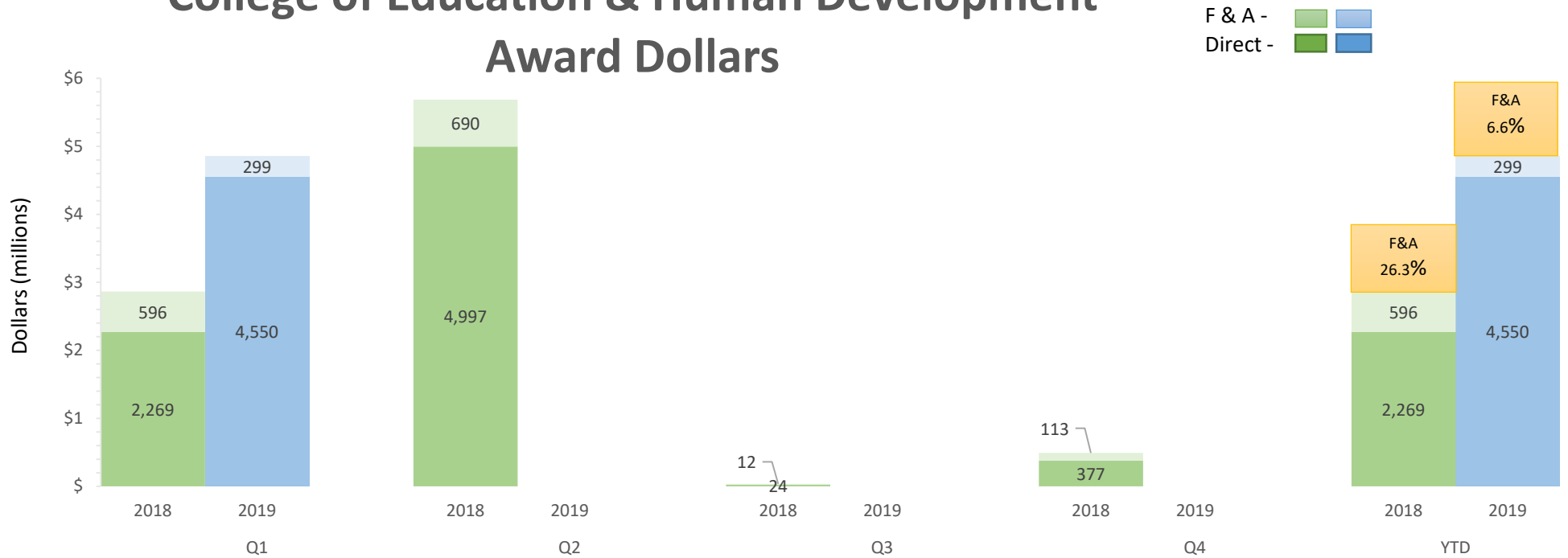
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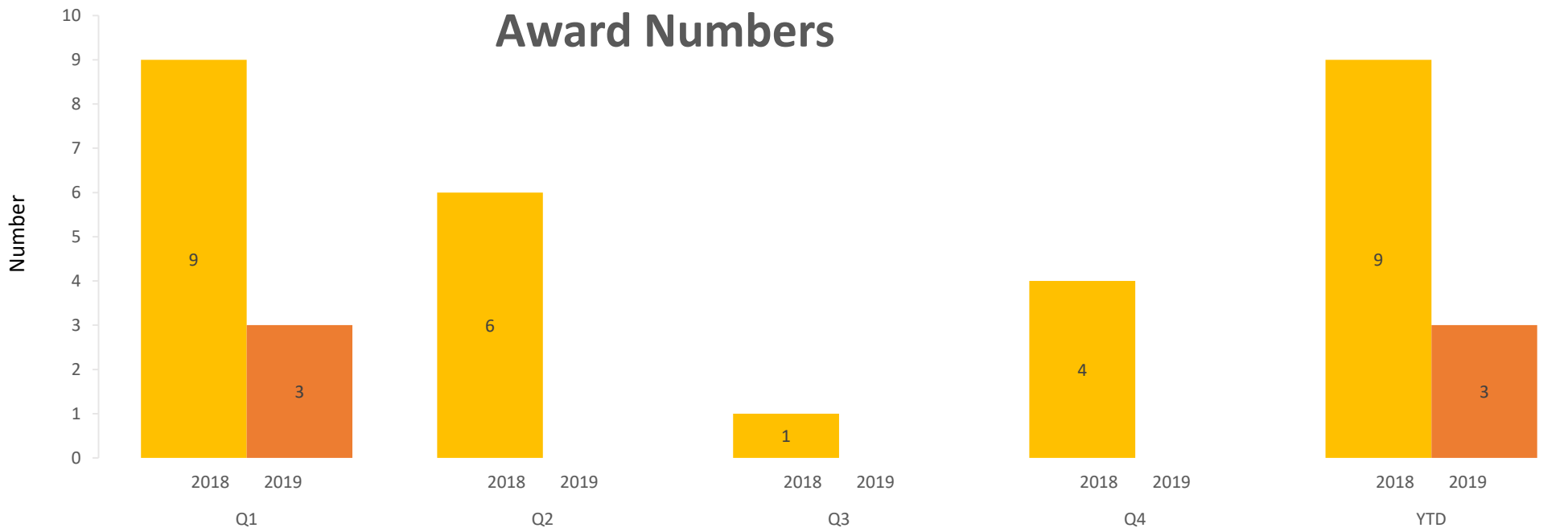
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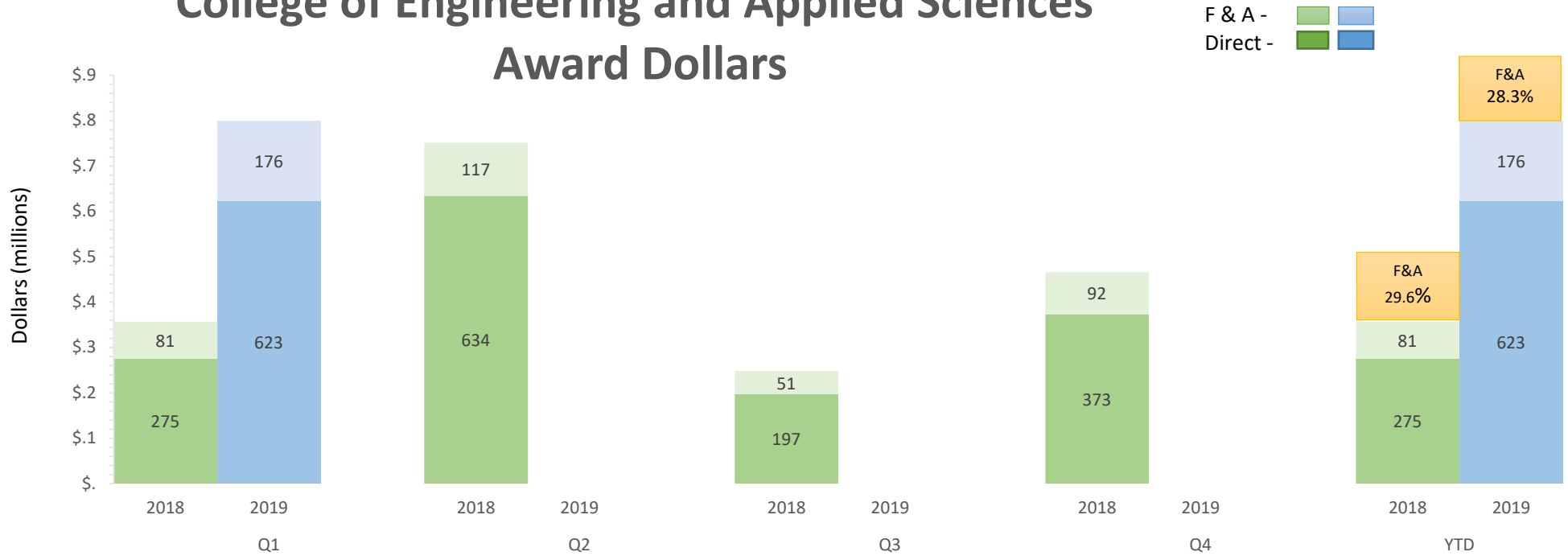
# College of Education & Human Development Award Dollars



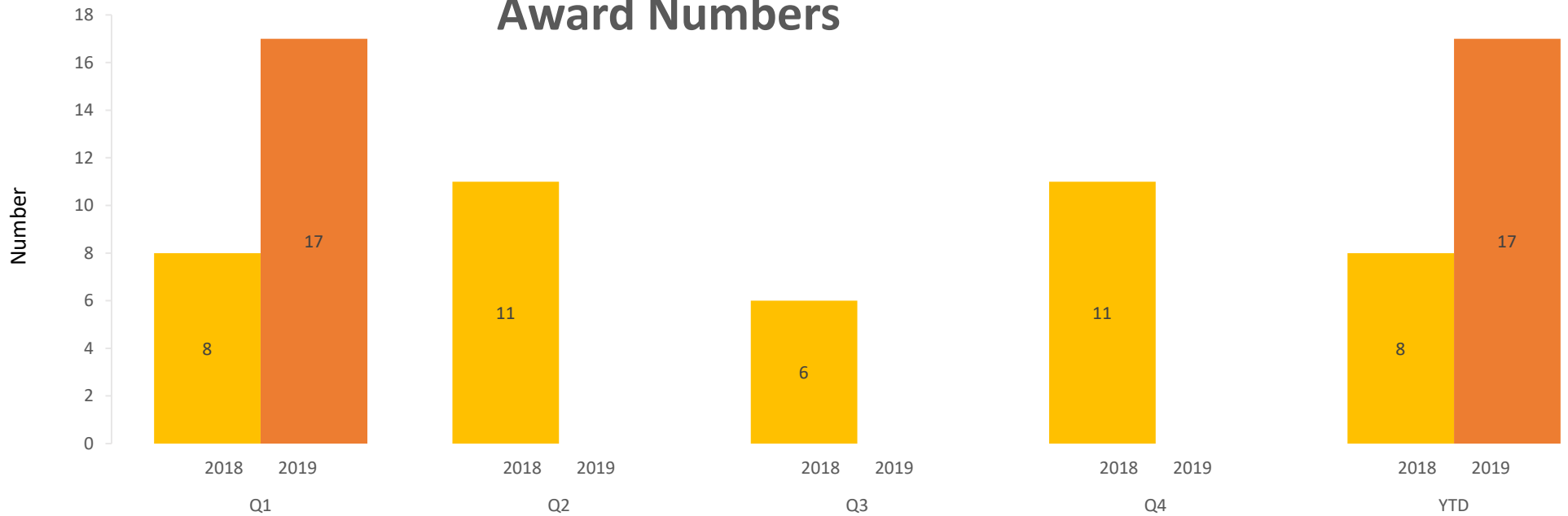
# College of Education & Human Development Award Numbers



# College of Engineering and Applied Sciences Award Dollars



# College of Engineering and Applied Sciences Award Numbers



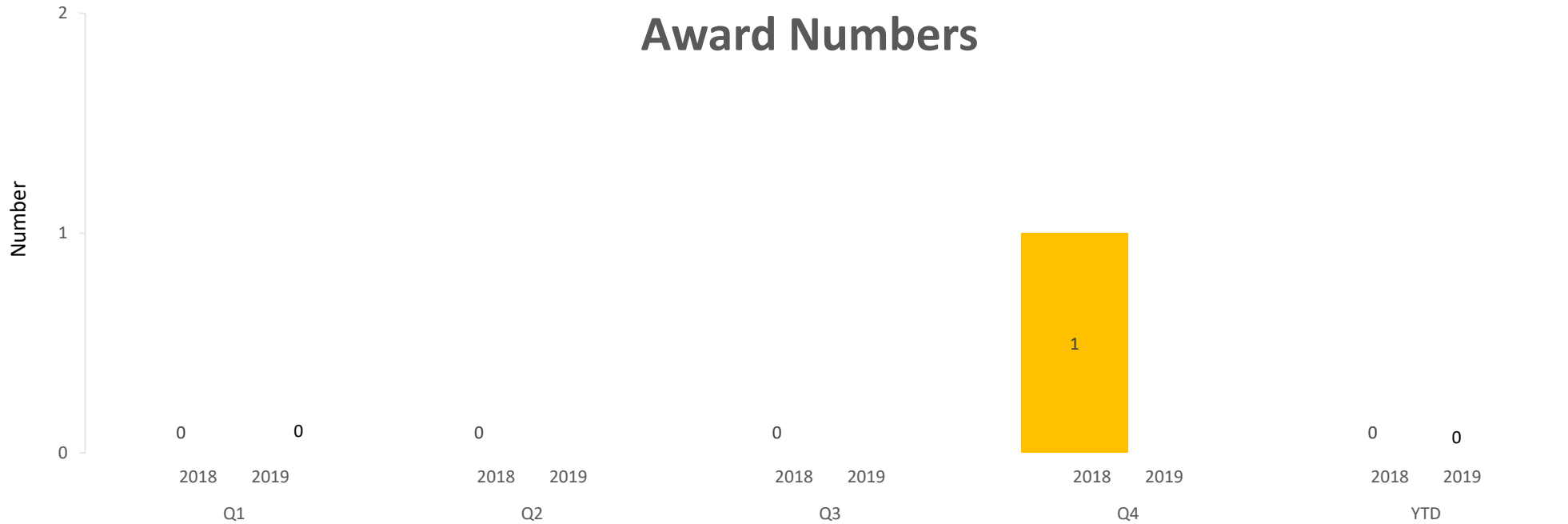


# College of Fine Arts Award Dollars

F & A - █ █  
 Direct - █ █



# College of Fine Arts Award Numbers

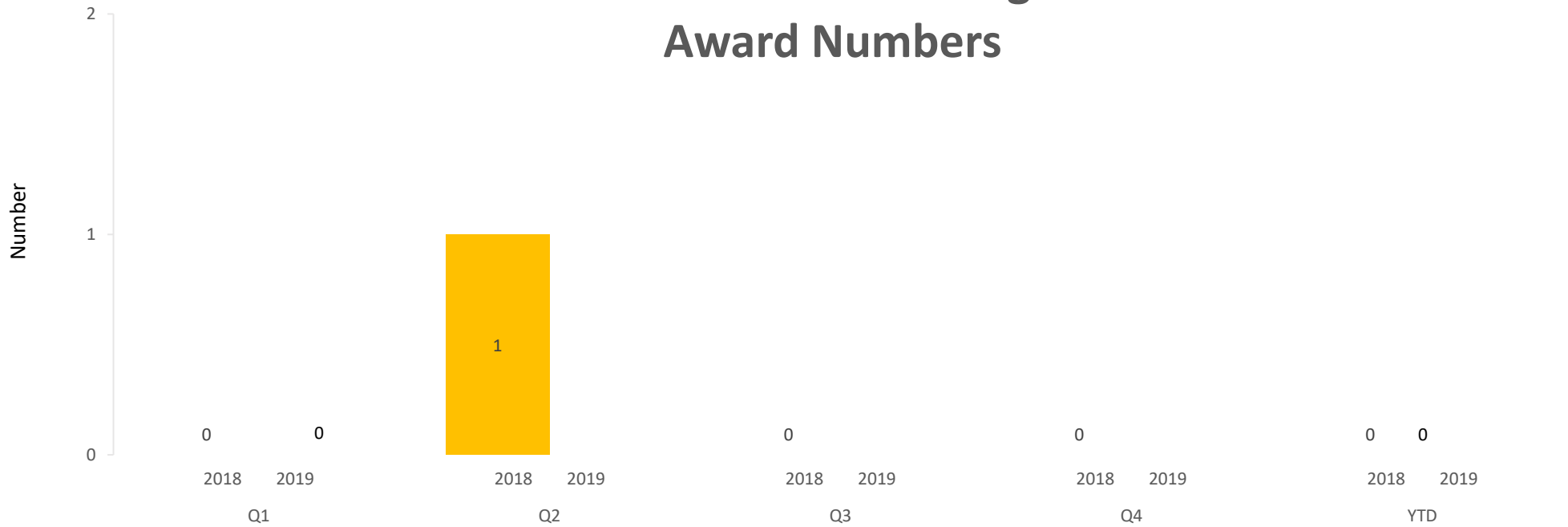


# The Graduate College Award Dollars

F & A - █ █  
 Direct - █ █



# The Graduate College Award Numbers

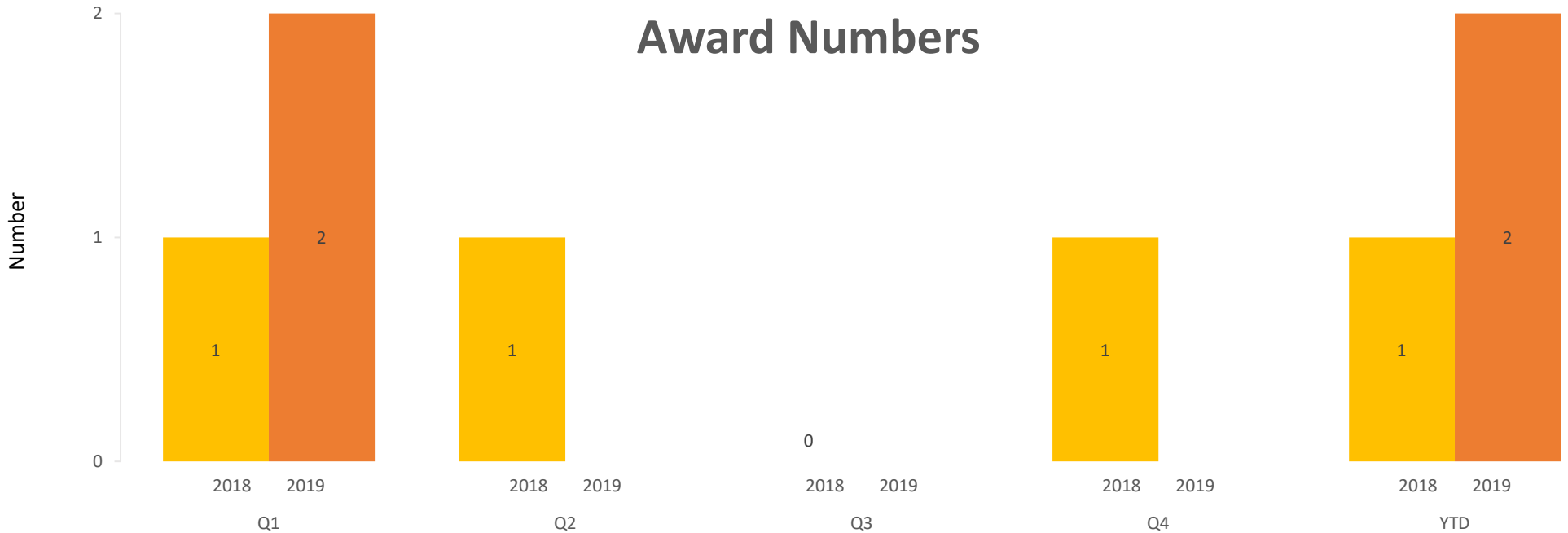


# Haworth College of Business Award Dollars

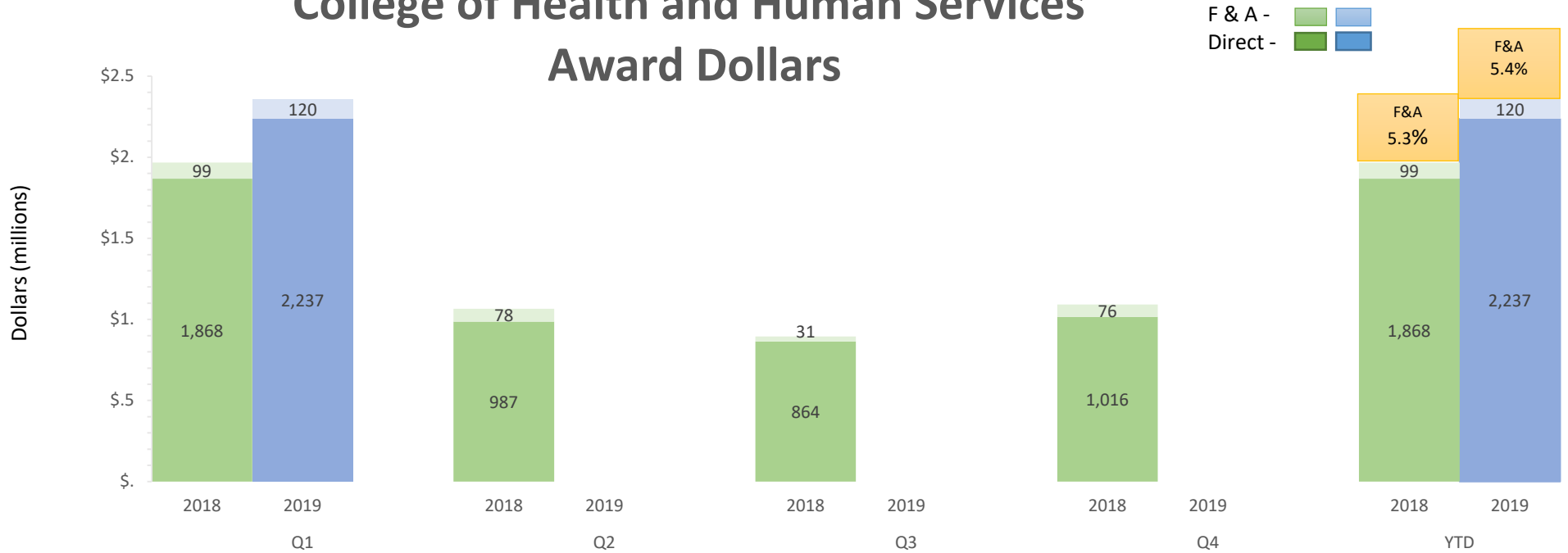
F & A - █ █  
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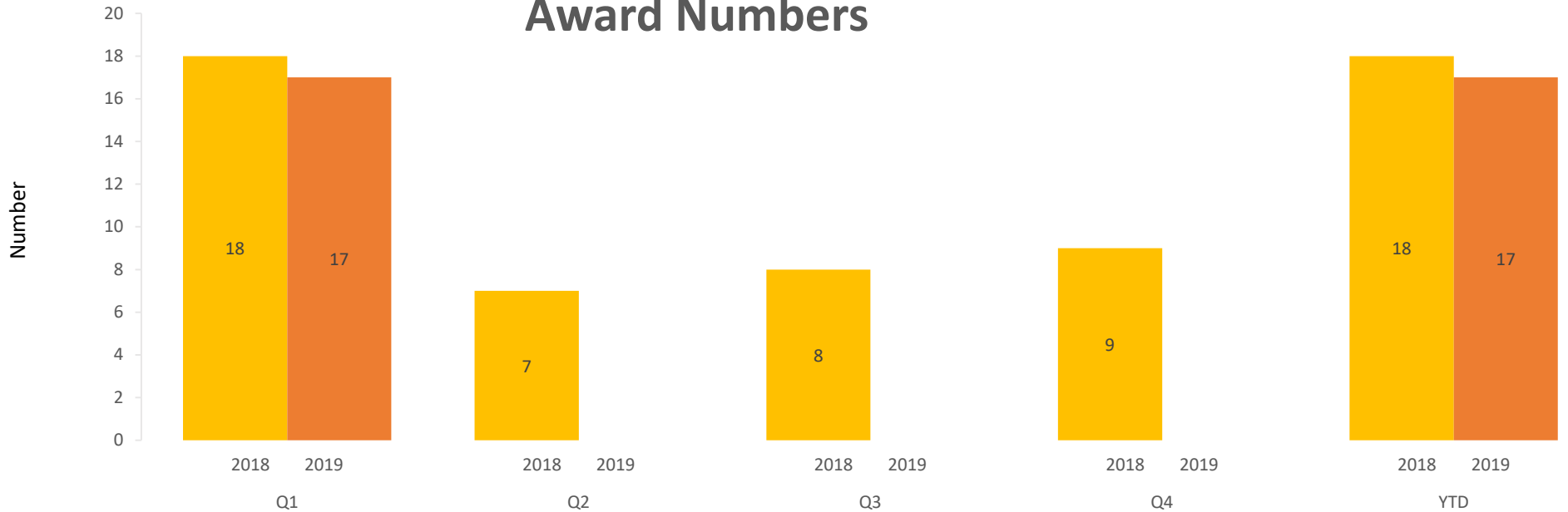
# Haworth College of Business Award Numbers



# College of Health and Human Services Award Dollars

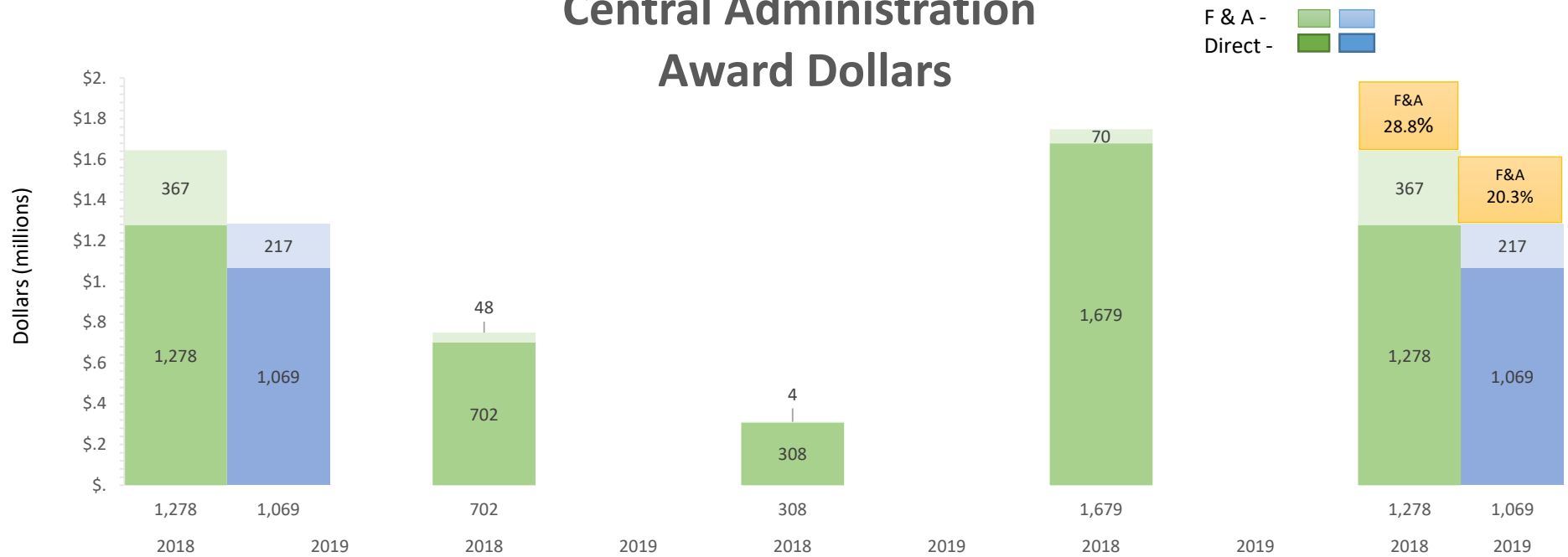


# College of Health and Human Services Award Numbers

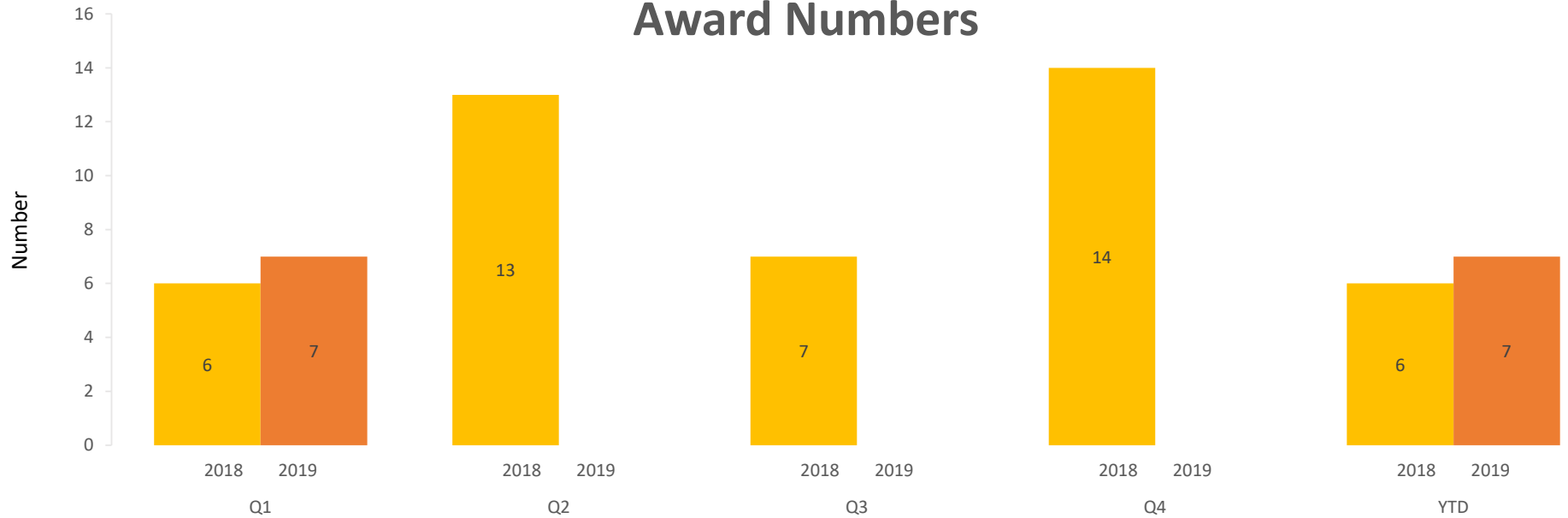


\*Totals include tracking only: FY18 - Numbers 4; Dollars \$2,277,887.30; FY19 - Numbers 1; Dollars \$490,921.03

# Central Administration Award Dollars



# Central Administration Award Numbers

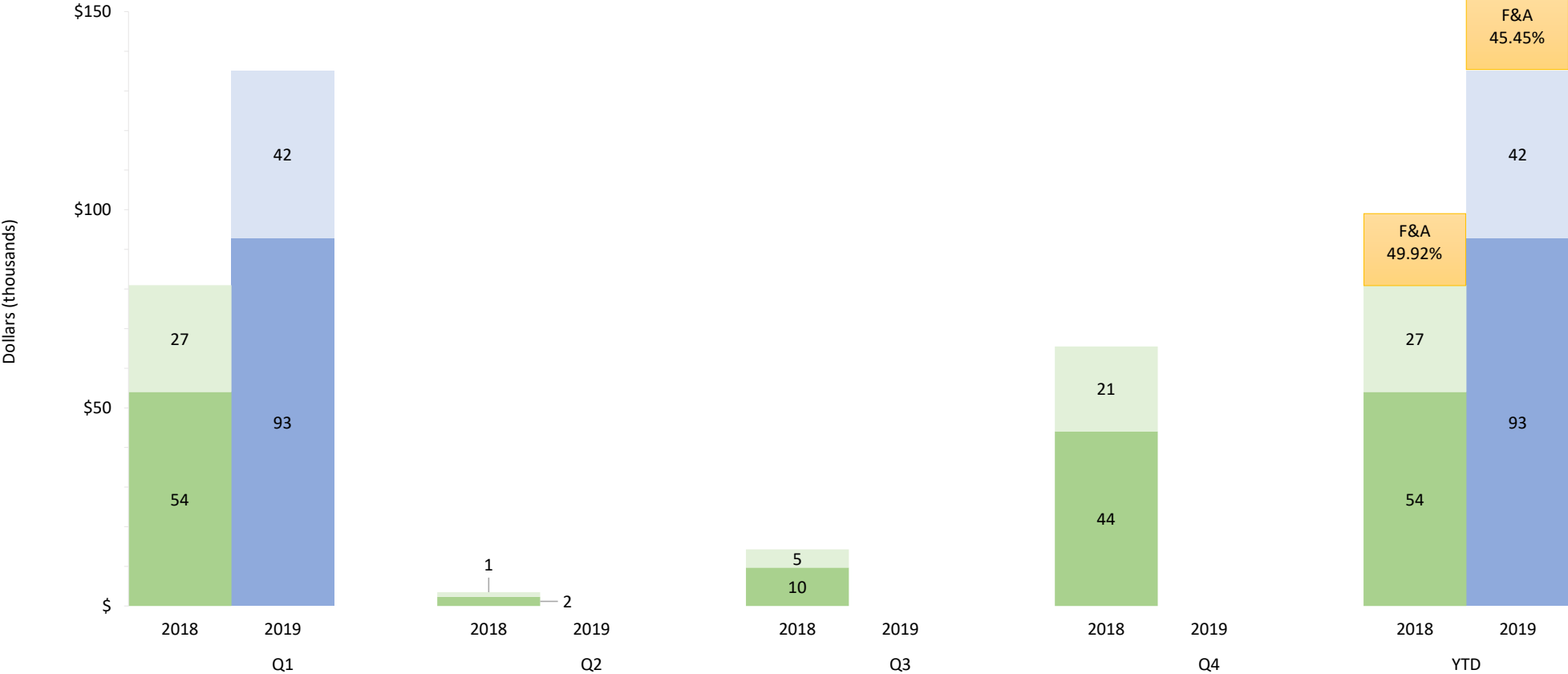


\*Central Administration includes: OVPR, Provost & VPAA, VPBF, VPDI and VPSA

\*\*VPBF - FY18 Q4 includes tracking only: Numbers 3; Dollars \$1,065,138.53

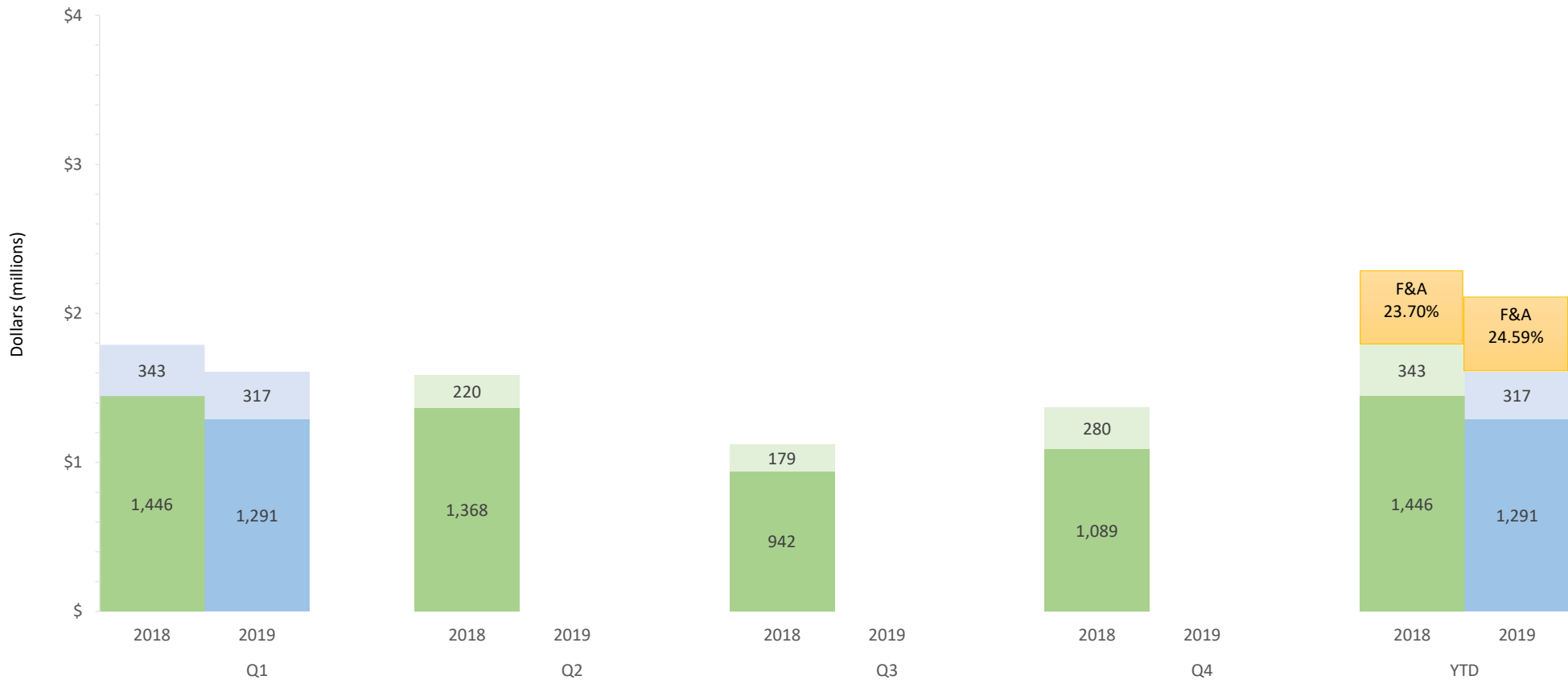
# College of Aviation Expenditure Dollars

F & A - ■ ■  
 Direct - ■ ■



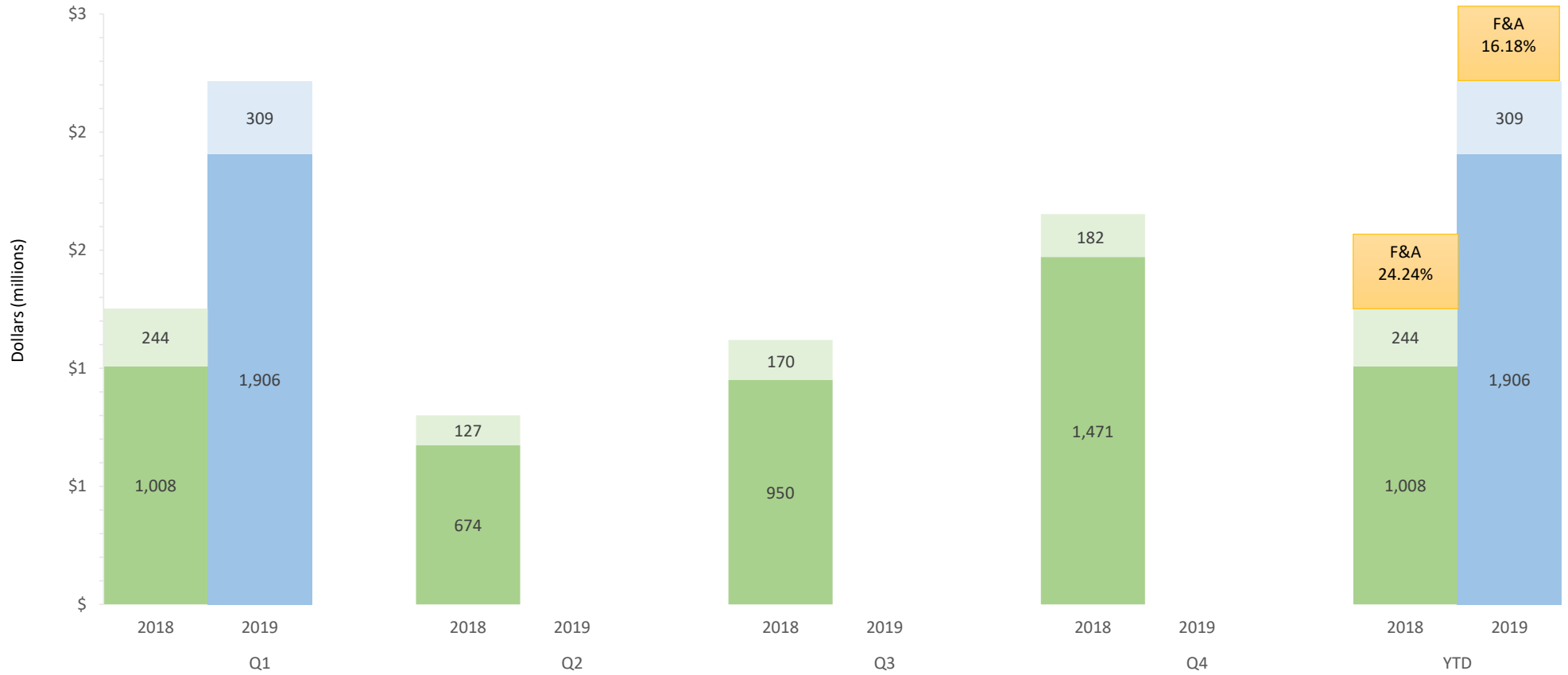
# College of Arts and Sciences Expenditure Dollars

F & A - ■ ■  
 Direct - ■ ■



# College of Education & Human Development Expenditure Dollars

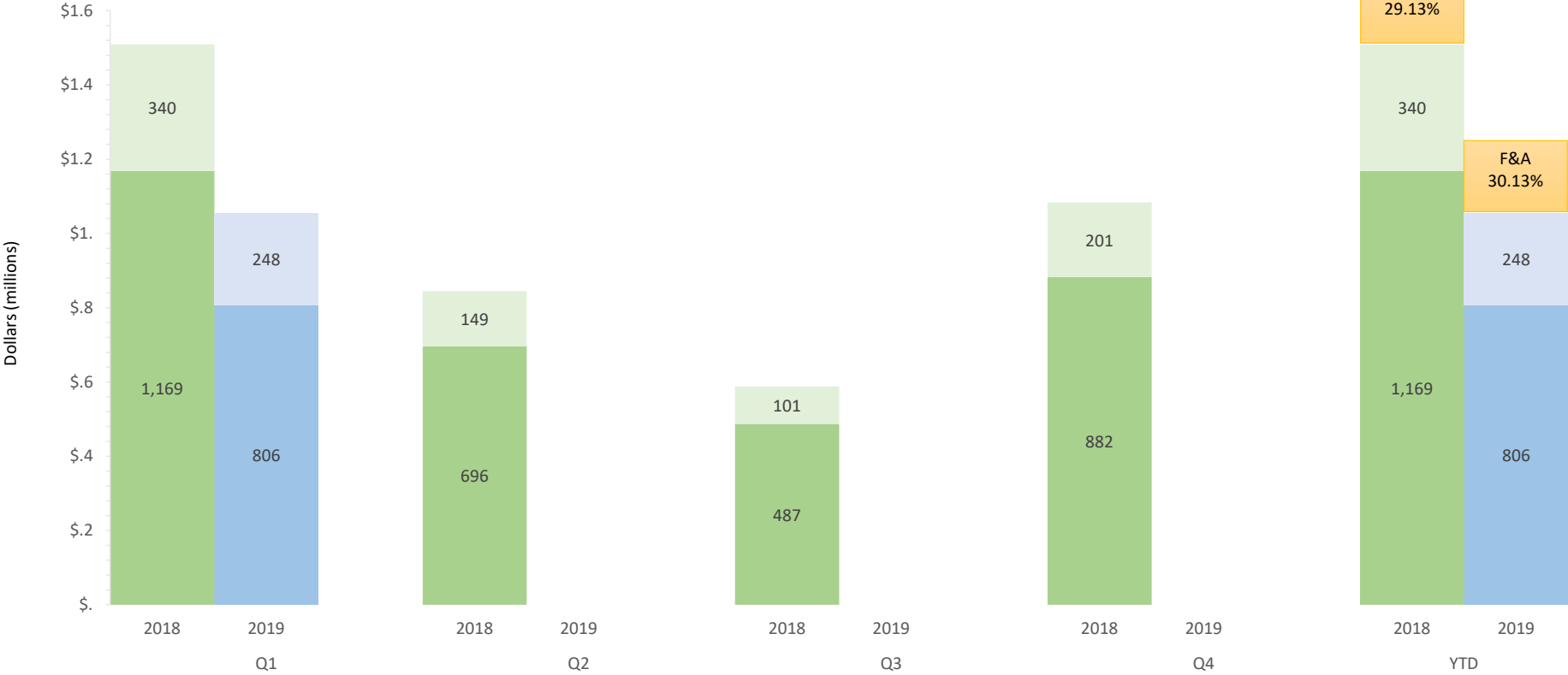
F & A - ■ ■  
 Direct - ■ ■





# College of Engineering and Applied Sciences Expenditure Dollars

F & A - ■ ■  
Direct - ■ ■

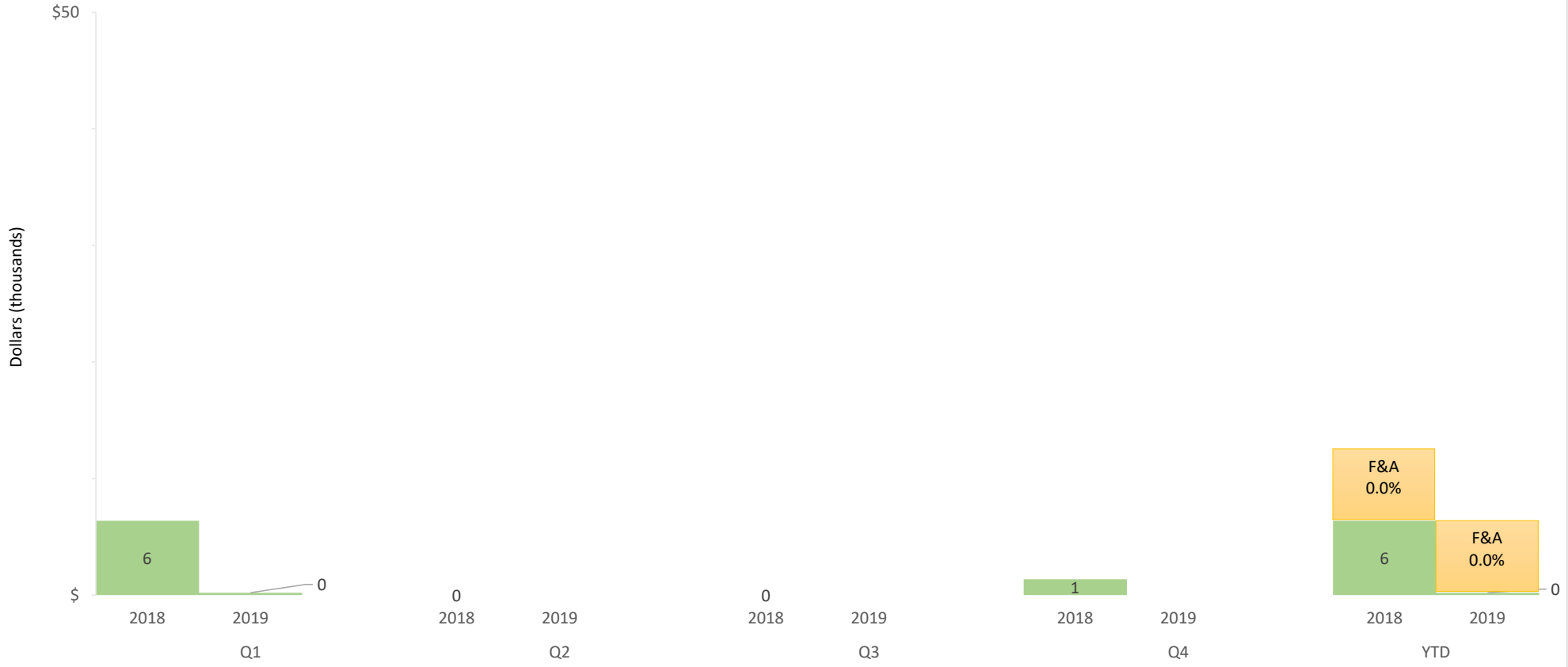


F&A  
29.13%

F&A  
30.13%

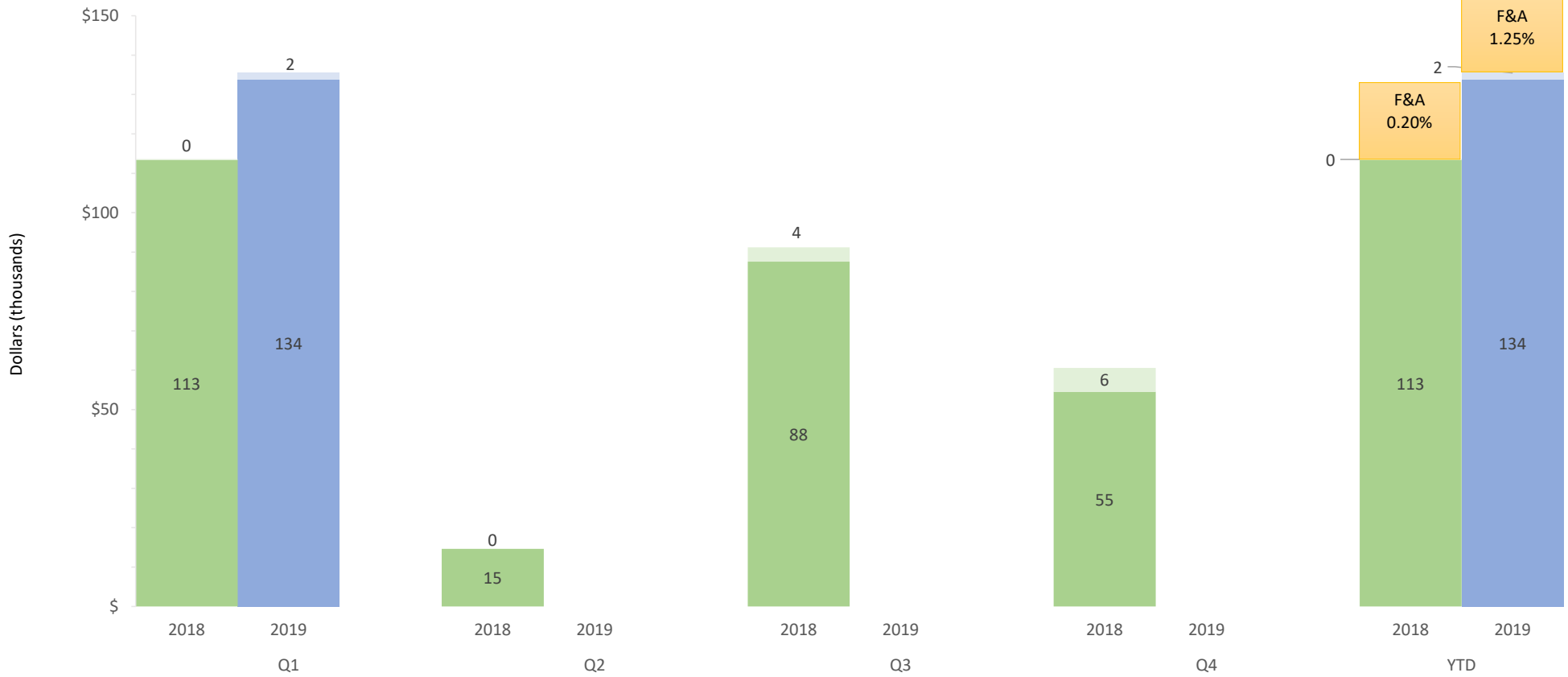
# College of Fine Arts Expenditure Dollars

F & A - ■ ■  
 Direct - ■ ■



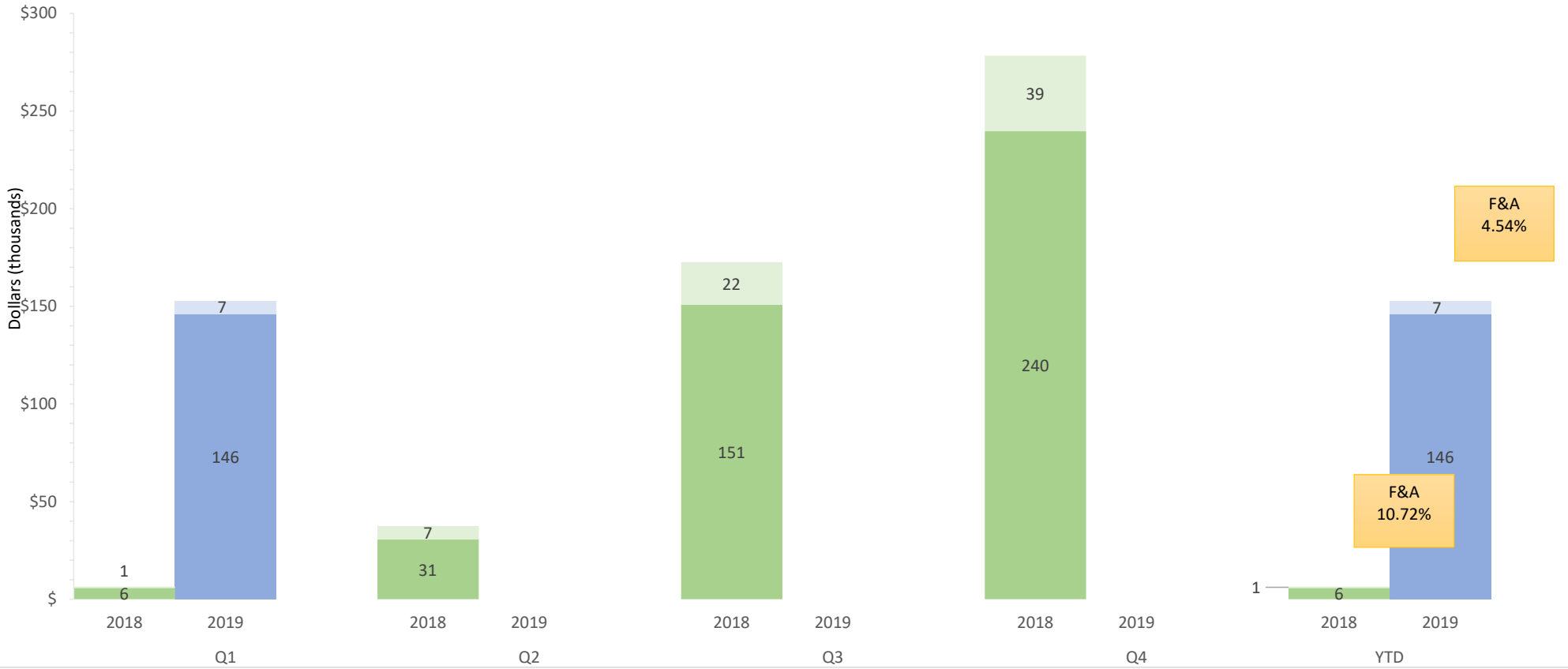
# The Graduate College Expenditure Dollars

F & A -    
 Direct -  



# Haworth College of Business Expenditure Dollars

F & A - ■ ■  
Direct - ■ ■



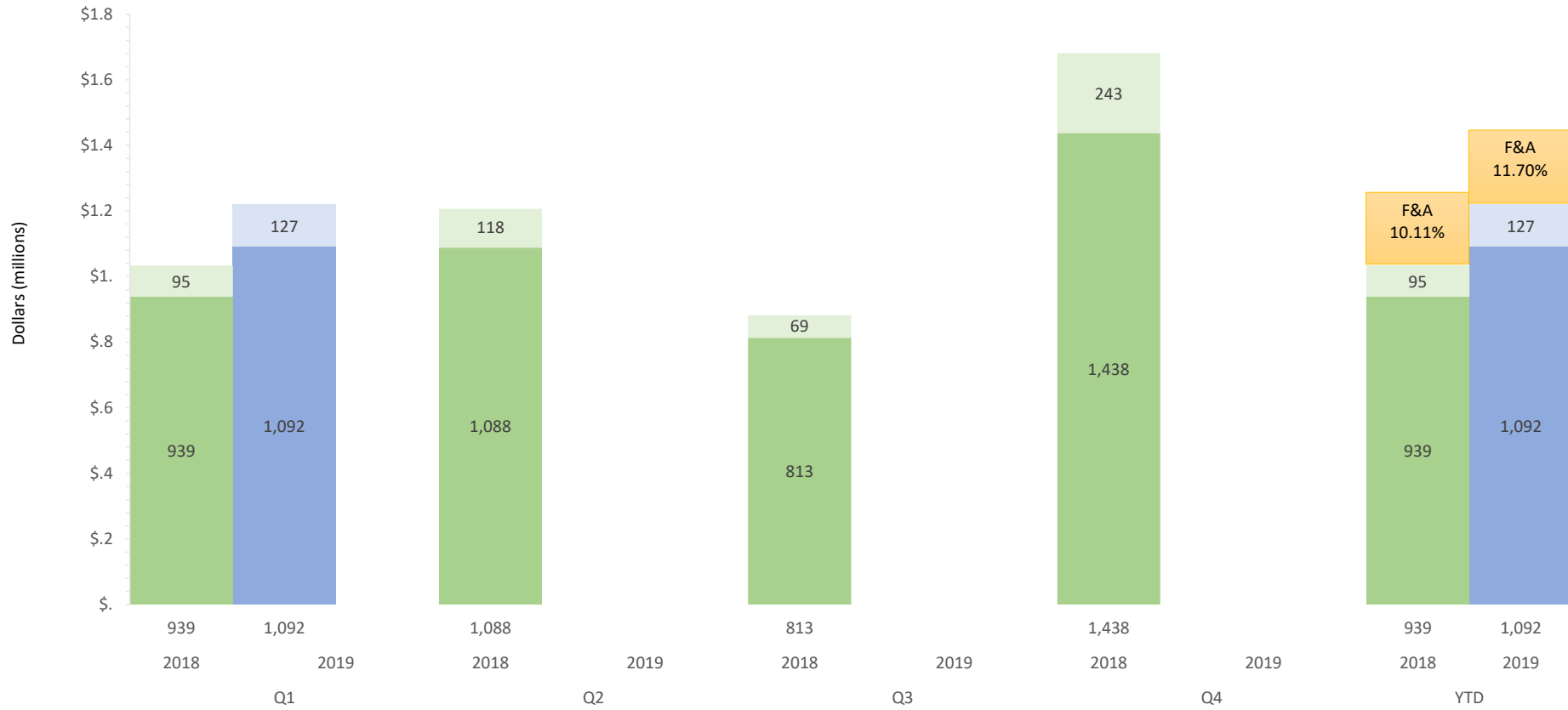
# College of Health and Human Services Expenditure Dollars

F & A - ■ ■  
 Direct - ■ ■



# Central Administration Expenditure Dollars

F & A - ■ ■  
 Direct - ■ ■



\*Central Administration includes: OVPR, Provost & VPAA, VPBF, VPDI and VPSA