GLS Activity: Coverage

Table of Contents

# Set the scene

Describe the working environment.

# Attach these packages so their functions don't need to be qualified  
library(magrittr) # pipes  
library(dplyr) # disable when temp lines are removed  
library(ggplot2) # graphs  
library(ggpubr) # documents

# Call `base::source()` on any repo file that defines functions needed below.   
base::source("./scripts/common-functions.R")

path\_file\_input <- "./data-unshared/derived/0-greeted-gls.rds"  
html\_flip <- FALSE  
output\_format = "pandoc"  
baseSize <- 10

#Put code in here. It doesn't call a chunk in the codebehind file.

dto <- readRDS(path\_file\_input)  
dto %>% pryr::object\_size(); dto %>% class(); dto %>% names()

112 kB

[1] "tbl\_df" "tbl" "data.frame"

[1] "region" "audience" "county\_zipcode" "type\_training" "n\_trained" "date"   
[7] "county" "zipcode"

# assign aliases for this report  
ds <- dto

# create auxilary variables  
ds <- ds %>%   
 # dplyr::select(-county\_zipcode) %>%   
 dplyr::mutate(  
 year = lubridate::year(date)  
 ,month = lubridate::month(date)  
 ,yearmonth = zoo::as.yearmon(date)  
 ,weekday = lubridate::wday(date)  
 ,rgn = car::recode(  
 region,  
 "  
 'central'='CN'  
 ;'southeast'='SE'  
 ;'northeast'='NE '  
 "  
 )  
 )  
  
ds %>% glimpse(60)

Observations: 1,017  
Variables: 13  
$ region <chr> "central", "central", "central",...  
$ audience <chr> "professionals", "professionals"...  
$ county\_zipcode <chr> "Orange/32825", "Brevard/32796",...  
$ type\_training <chr> "QPR", "QPR", "QPR", "QPR", "QPR...  
$ n\_trained <dbl> 7, 35, 21, 21, 25, 22, 19, 24, 1...  
$ date <date> 2015-07-16, 2015-08-07, 2015-09...  
$ county <chr> "Orange", "Brevard", "Orange", "...  
$ zipcode <chr> "32825", "32796", "32804", "3280...  
$ year <dbl> 2015, 2015, 2015, 2015, 2015, 20...  
$ month <dbl> 7, 8, 9, 10, 10, 11, 12, 1, 2, 2...  
$ yearmonth <yearmon> Jul 2015, Aug 2015, Sep 2015...  
$ weekday <dbl> 5, 6, 6, 7, 1, 5, 4, 6, 5, 1, 7,...  
$ rgn <chr> "CN", "CN", "CN", "CN", "CN", "C...

# ds %>% explore::explore( )  
ds %>% explore::describe()

variable type na na\_pct unique min mean max  
1 region chr 0 0.0 3 NA NA NA  
2 audience chr 0 0.0 2 NA NA NA  
3 county\_zipcode chr 31 3.0 161 NA NA NA  
4 type\_training chr 0 0.0 271 NA NA NA  
5 n\_trained dou 12 1.2 83 0 35.21 3200  
6 date dat 4 0.4 656 NA NA NA  
7 county chr 31 3.0 25 NA NA NA  
8 zipcode chr 96 9.4 140 NA NA NA  
9 year dou 4 0.4 7 2014 2017.03 2019  
10 month dou 4 0.4 13 1 6.22 12  
11 yearmonth oth 4 0.4 57 NA NA NA  
12 weekday dou 4 0.4 8 1 4.74 7  
13 rgn chr 0 0.0 3 NA NA NA

# I Exposition

## all regions

Trained PROFESSIONALS by training type (for all years)

county

total\_trained

Care Coordination

Family Training

Postvention

QPR

QPRT

Orange (central)

2333

140

96

106

1957

34

Saint Lucie (southeast)

1213

44

40

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1073

56

Volusia (northeast)

816

65

42

14

652

43

Lake (northeast)

660

36

64

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524

36

Palm Beach (southeast)

610

110

42

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448

10

Seminole (central)

517

18

141

54

267

37

Brevard (central)

502

254

11

87

146

4

Saint Johns (northeast)

248

27

10

55

152

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Duval (northeast)

235

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220

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Hernando (northeast)

215

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85

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130

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Indian River (southeast)

195

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194

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Marion (northeast)

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Osceola (central)

135

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83

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Clay (northeast)

127

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Martin (southeast)

123

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97

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Sumter (northeast)

105

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92

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Flagler (northeast)

104

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92

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Citrus (northeast)

77

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Levy (northeast)

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34

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Okeechobee (southeast)

22

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22

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NA (northeast)

19

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Putnam (northeast)

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Polk (central)

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Leon (northeast)

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Pasco (northeast)

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Trained PROFESSIONALS by year (for all training types)

county

total\_trained

2014

2015

2016

2017

2018

2019

<NA>

Orange (central)

2333

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81

363

1161

582

146

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Saint Lucie (southeast)

1213

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Volusia (northeast)

816

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174

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342

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Lake (northeast)

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136

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312

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Palm Beach (southeast)

610

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Seminole (central)

517

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Brevard (central)

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Saint Johns (northeast)

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Duval (northeast)

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148

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Hernando (northeast)

215

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64

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Indian River (southeast)

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Marion (northeast)

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Osceola (central)

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Clay (northeast)

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Martin (southeast)

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Sumter (northeast)

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Flagler (northeast)

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Citrus (northeast)

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Levy (northeast)

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Okeechobee (southeast)

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NA (northeast)

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Putnam (northeast)

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Polk (central)

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Leon (northeast)

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Pasco (northeast)

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Trained IN COMMUNITY by year (for all training types)

county

total\_trained

2015

2016

2017

2018

2019

<NA>

Orange (central)

9337

1535

2883

3764

955

200

.

Volusia (northeast)

3948

125

1208

837

1438

340

.

Palm Beach (southeast)

2585

25

355

555

1400

250

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Seminole (central)

2560

200

1550

650

160

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Saint Lucie (southeast)

2113

25

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955

830

215

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Brevard (central)

1481

186

500

440

310

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Flagler (northeast)

1375

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160

237

743

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Martin (southeast)

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125

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NA (southeast)

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Saint Johns (northeast)

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Marion (northeast)

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NA (northeast)

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Indian River (southeast)

245

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Lake (northeast)

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NA (central)

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Hernando (northeast)

115

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Leon (northeast)

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Sumter (northeast)

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Osceola (central)

35

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for(region\_i in regions\_available){  
 cat("\n## ", region\_i, "\n")  
 ds %>% region\_table(pick\_region = region\_i)  
 cat("\n")  
}

## central

Trained PROFESSIONALS by training type (for all years)

county

total\_trained

Care Coordination

Family Training

Postvention

QPR

QPRT

Orange

2333

140

96

106

1957

34

Seminole

517

18

141

54

267

37

Brevard

502

254

11

87

146

4

Osceola

135

24

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83

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Polk

11

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.

Trained PROFESSIONALS by year (for all training types)

county

total\_trained

2015

2016

2017

2018

2019

Orange

2333

81

363

1161

582

146

Seminole

517

19

192

208

84

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Brevard

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336

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Osceola

135

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Polk

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Trained IN COMMUNITY by year (for all training types)

county

total\_trained

2015

2016

2017

2018

2019

Orange

9337

1535

2883

3764

955

200

Seminole

2560

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1550

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Brevard

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Osceola

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## southeast

Trained PROFESSIONALS by training type (for all years)

county

total\_trained

Care Coordination

Family Training

QPR

QPRT

Saint Lucie

1213

44

40

1073

56

Palm Beach

610

110

42

448

10

Indian River

195

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194

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Martin

123

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97

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Okeechobee

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Trained PROFESSIONALS by year (for all training types)

county

total\_trained

2015

2016

2017

2018

2019

<NA>

Saint Lucie

1213

49

230

551

356

27

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Palm Beach

610

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Indian River

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Okeechobee

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Trained IN COMMUNITY by year (for all training types)

county

total\_trained

2015

2016

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Palm Beach

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Saint Lucie

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Martin

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Indian River

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## northeast

Trained PROFESSIONALS by training type (for all years)

county

total\_trained

Care Coordination

Family Training

Postvention

QPR

QPRT

Volusia

816

65

42

14

652

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Lake

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Saint Johns

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Trained PROFESSIONALS by year (for all training types)

county

total\_trained

2014

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Volusia

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Trained IN COMMUNITY by year (for all training types)

county

total\_trained

2015

2016

2017

2018

2019

<NA>

Volusia

3948

125

1208

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Flagler

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Saint Johns

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Marion

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Lake

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Hernando

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Sumter

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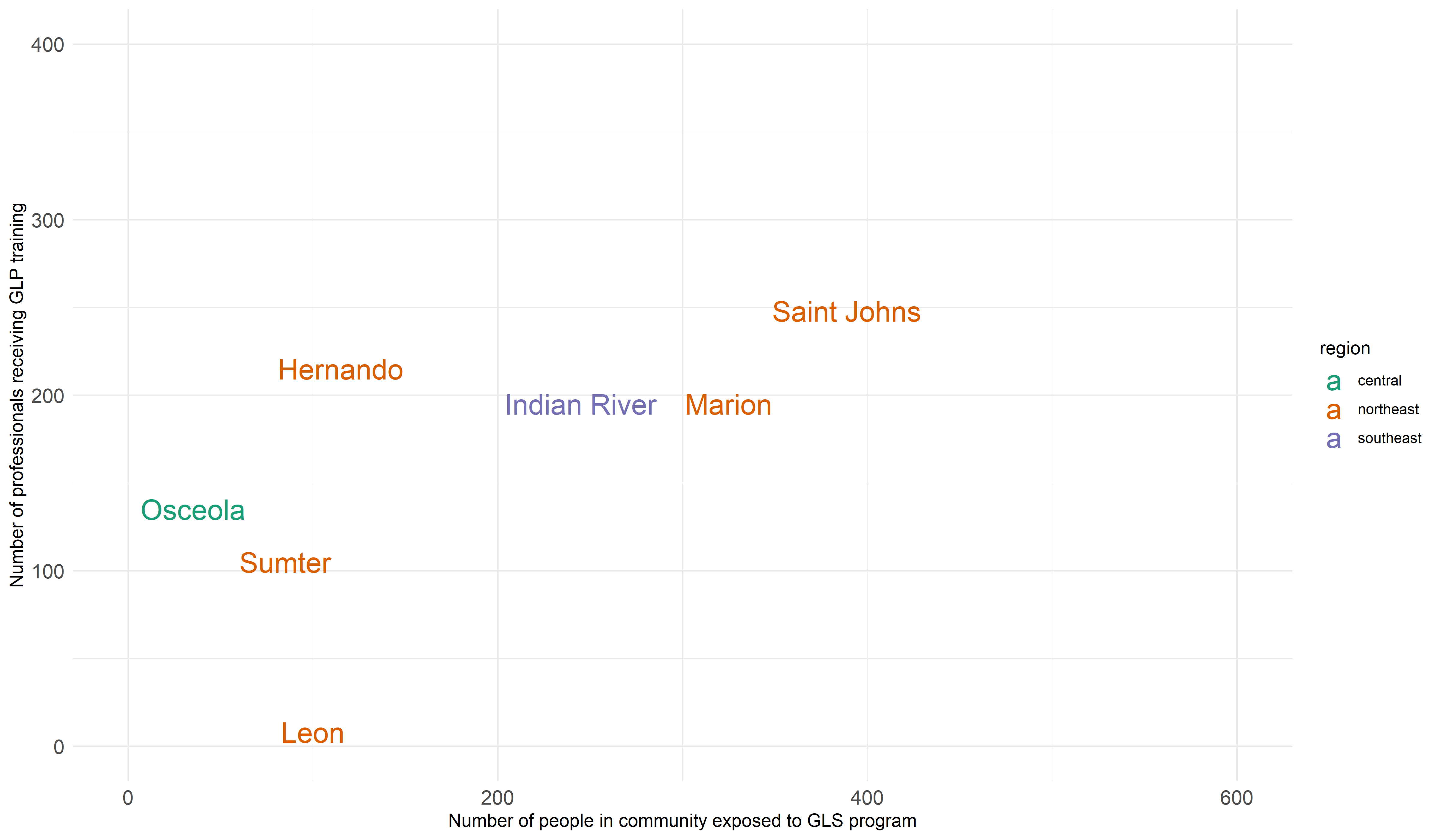
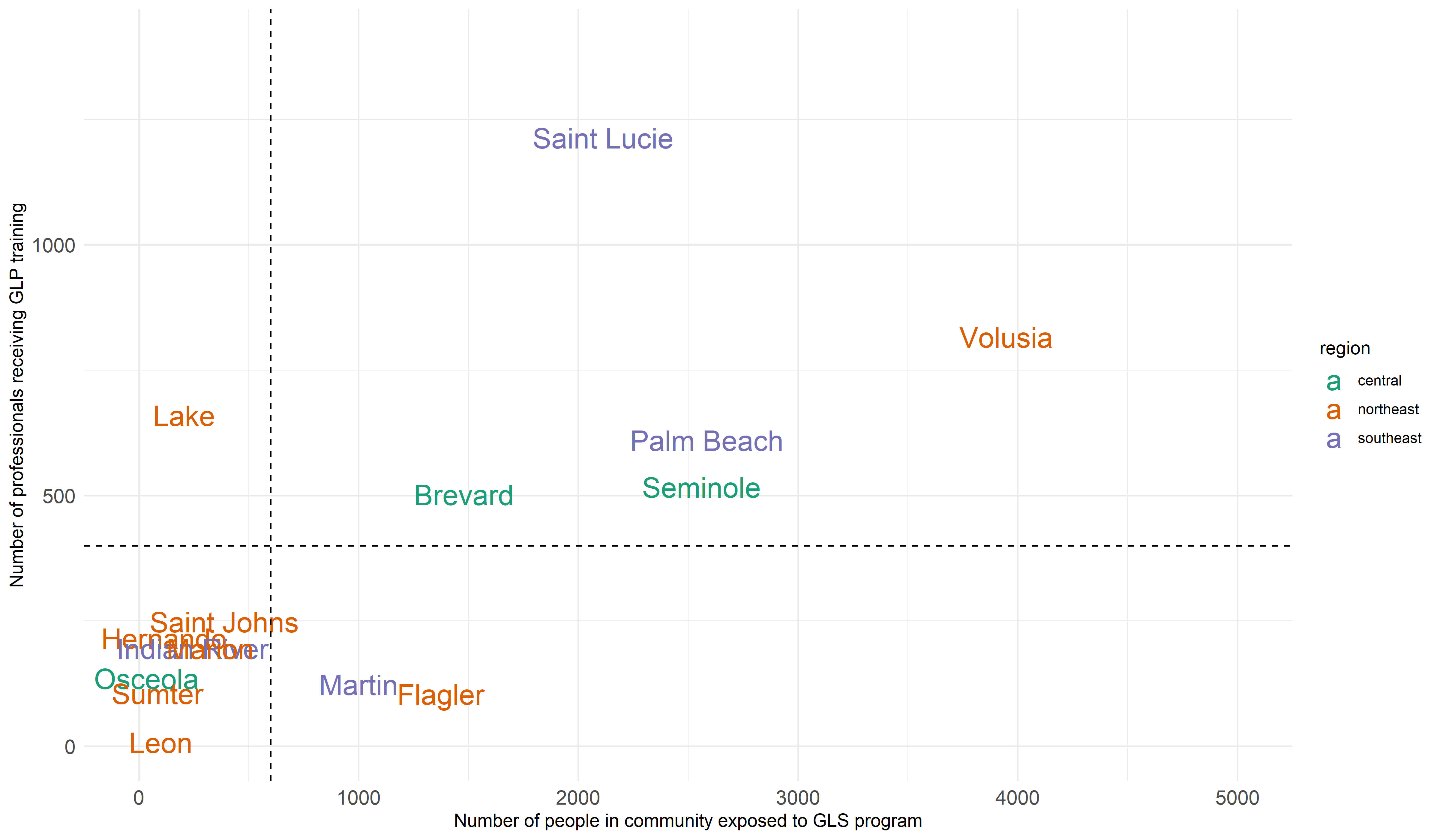
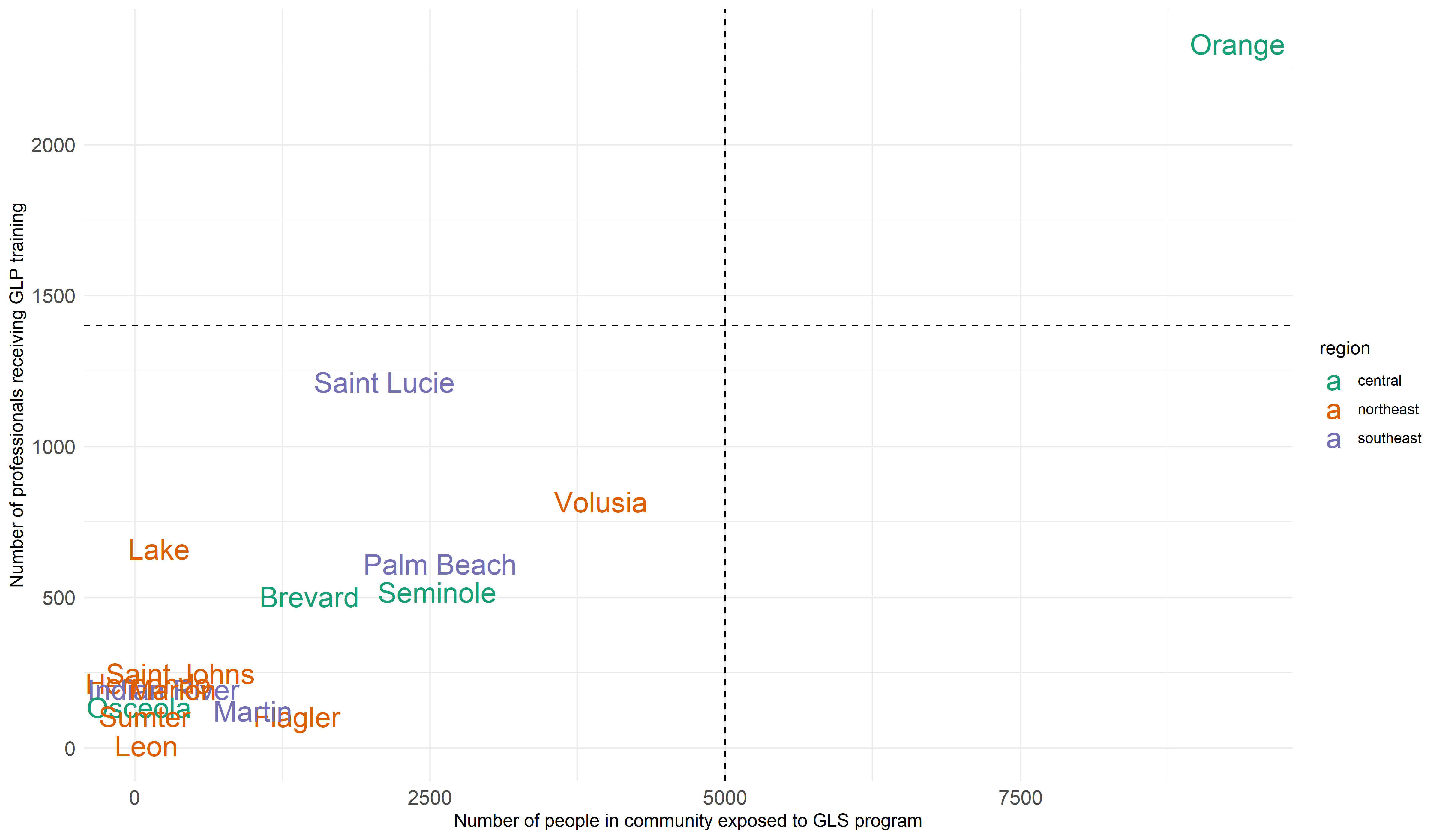
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# II Scatter

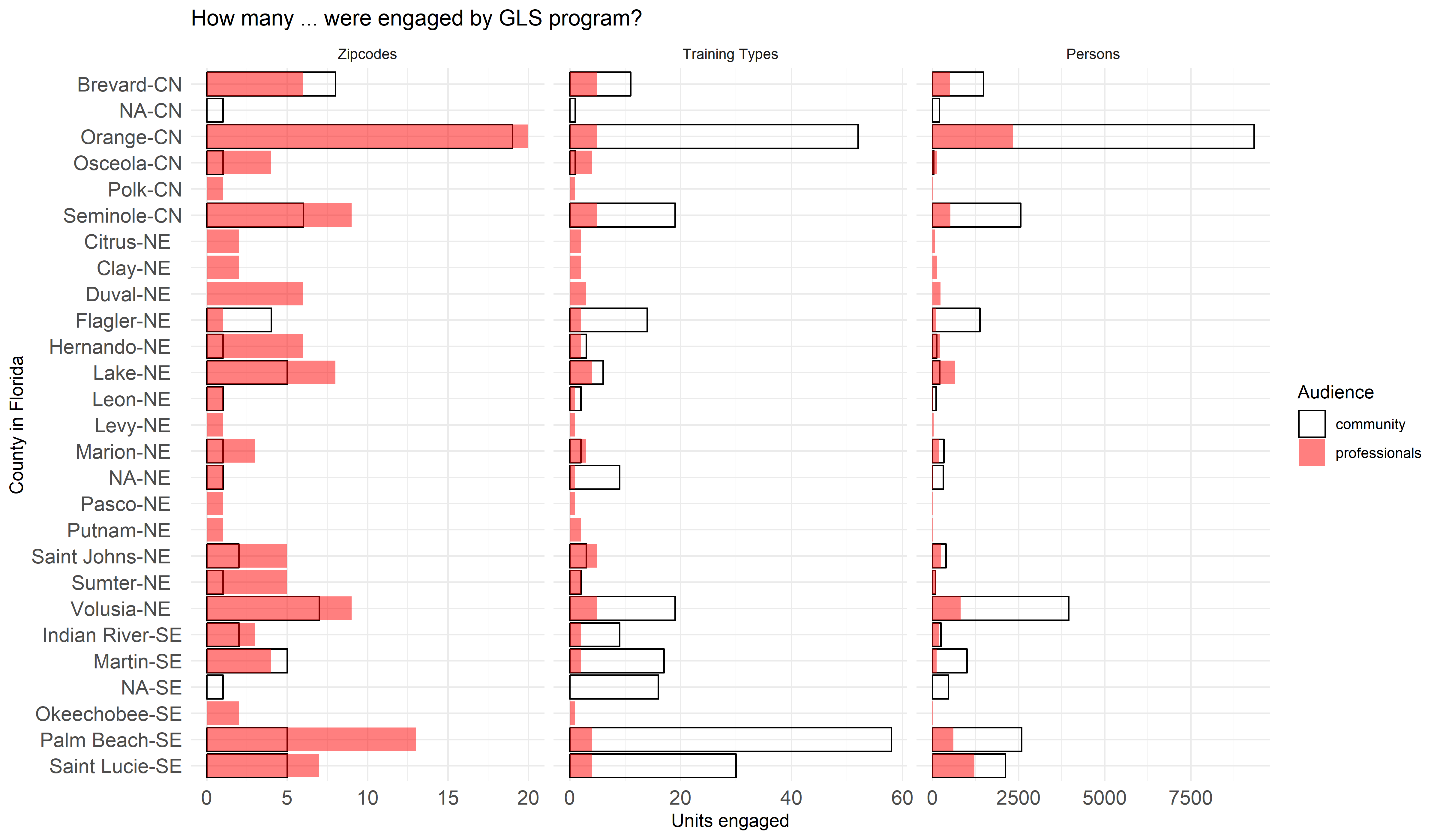
## 1 County



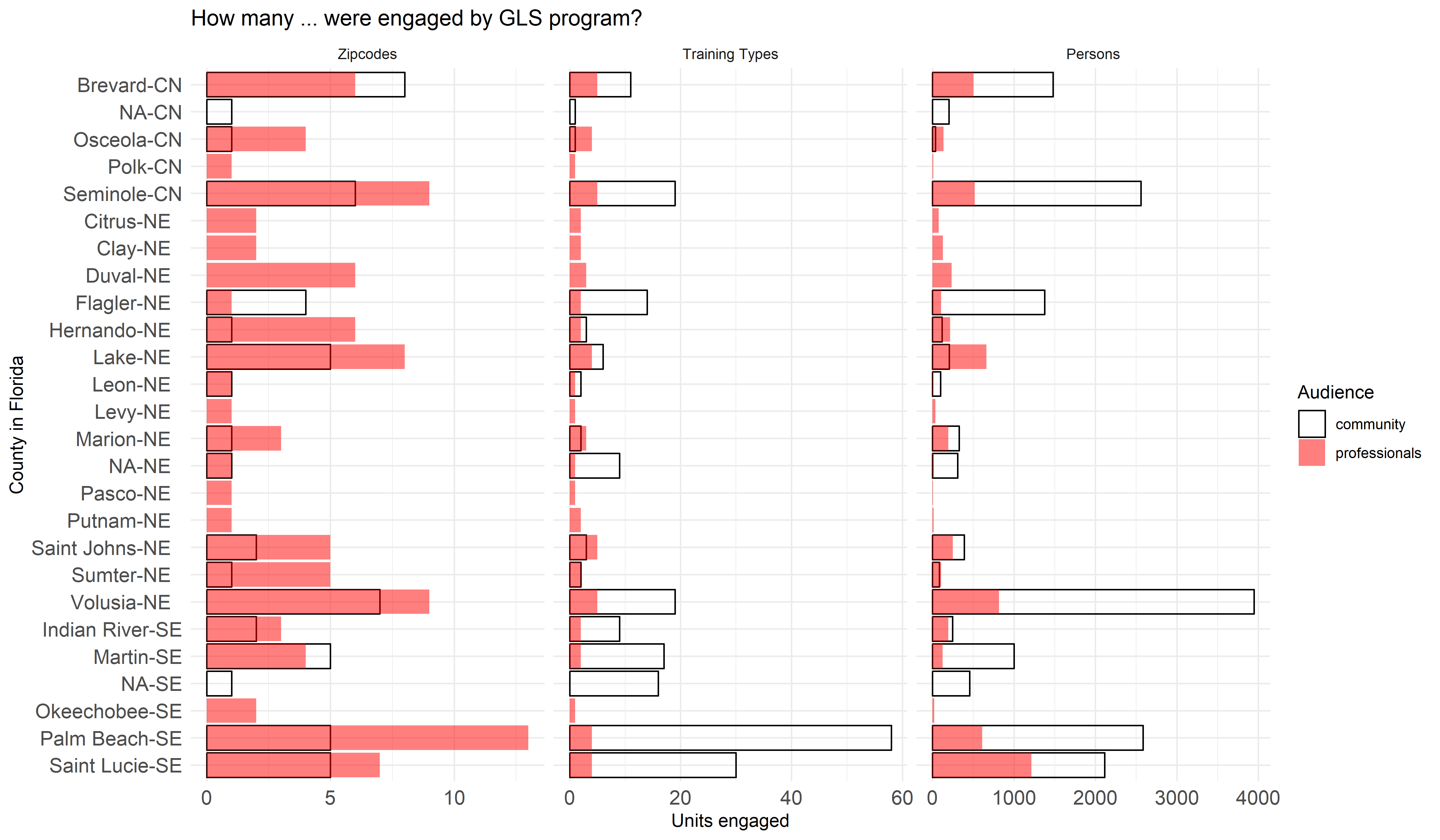
# III Coverage

## Combined

ds %>% show\_coverage()

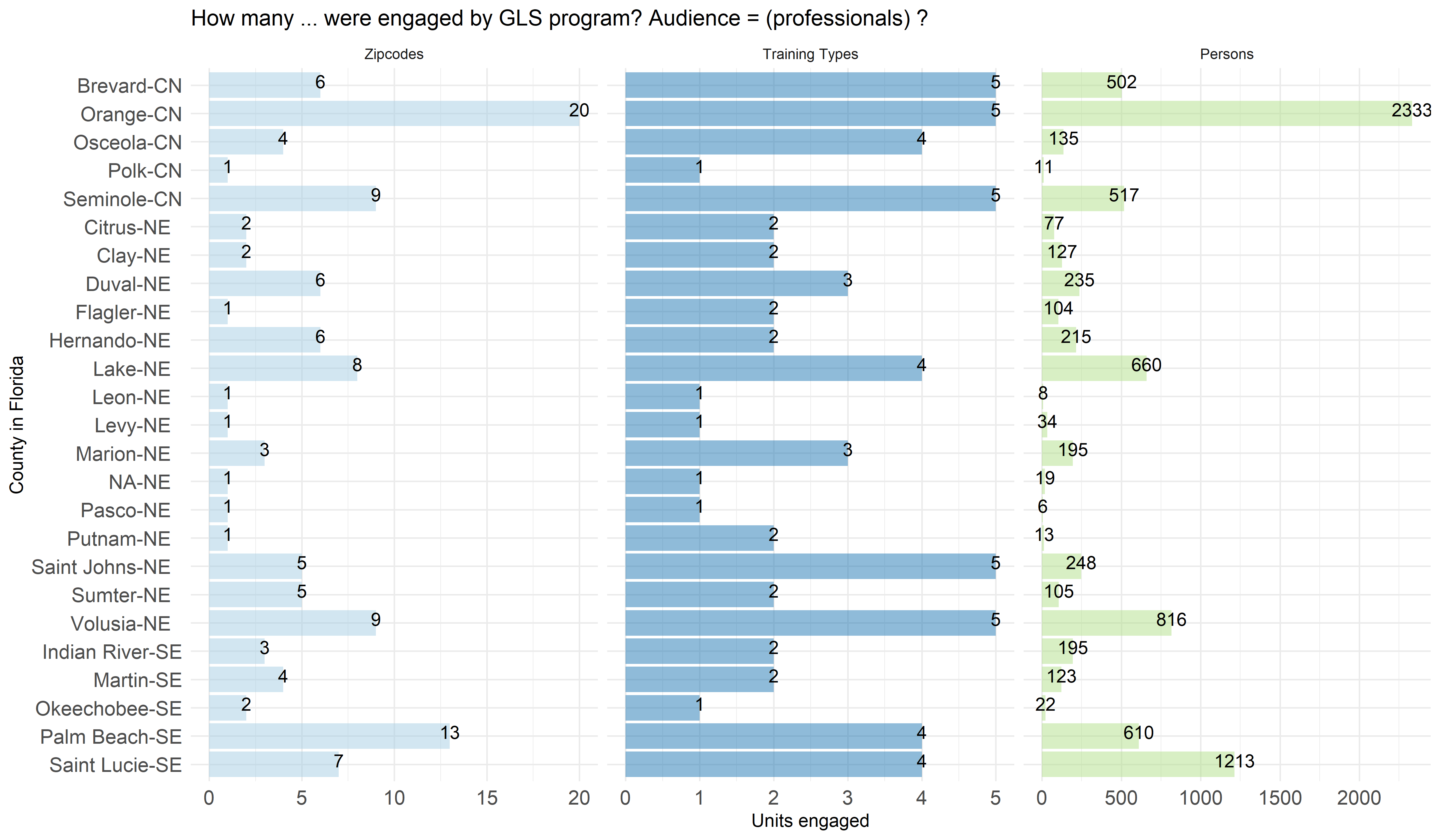


# to remove the outlier  
ds %>%   
 dplyr::filter( !county %in% c("Orange") ) %>%   
 show\_coverage()



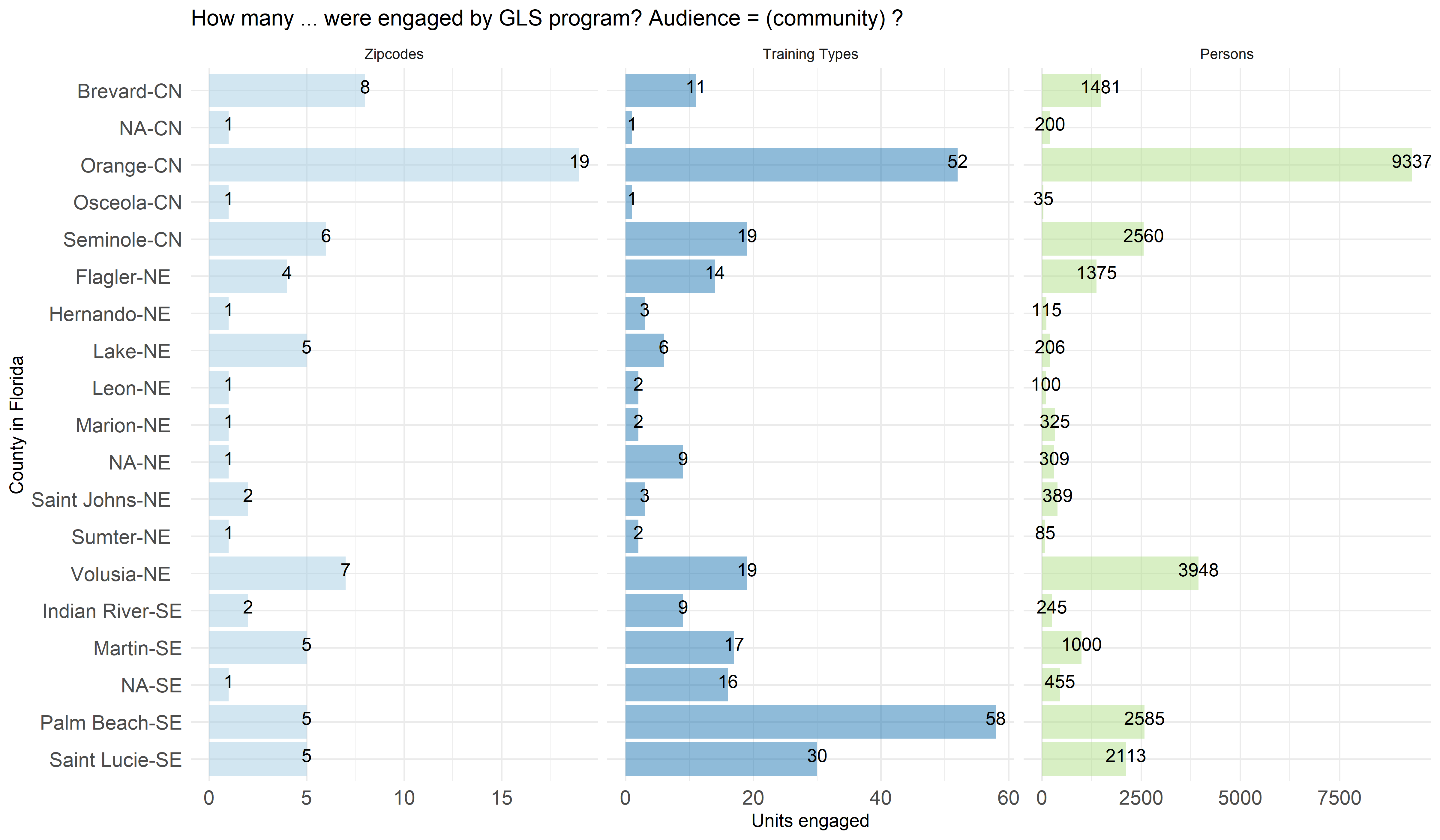
## Professionals

ds %>% show\_coverage("professionals")



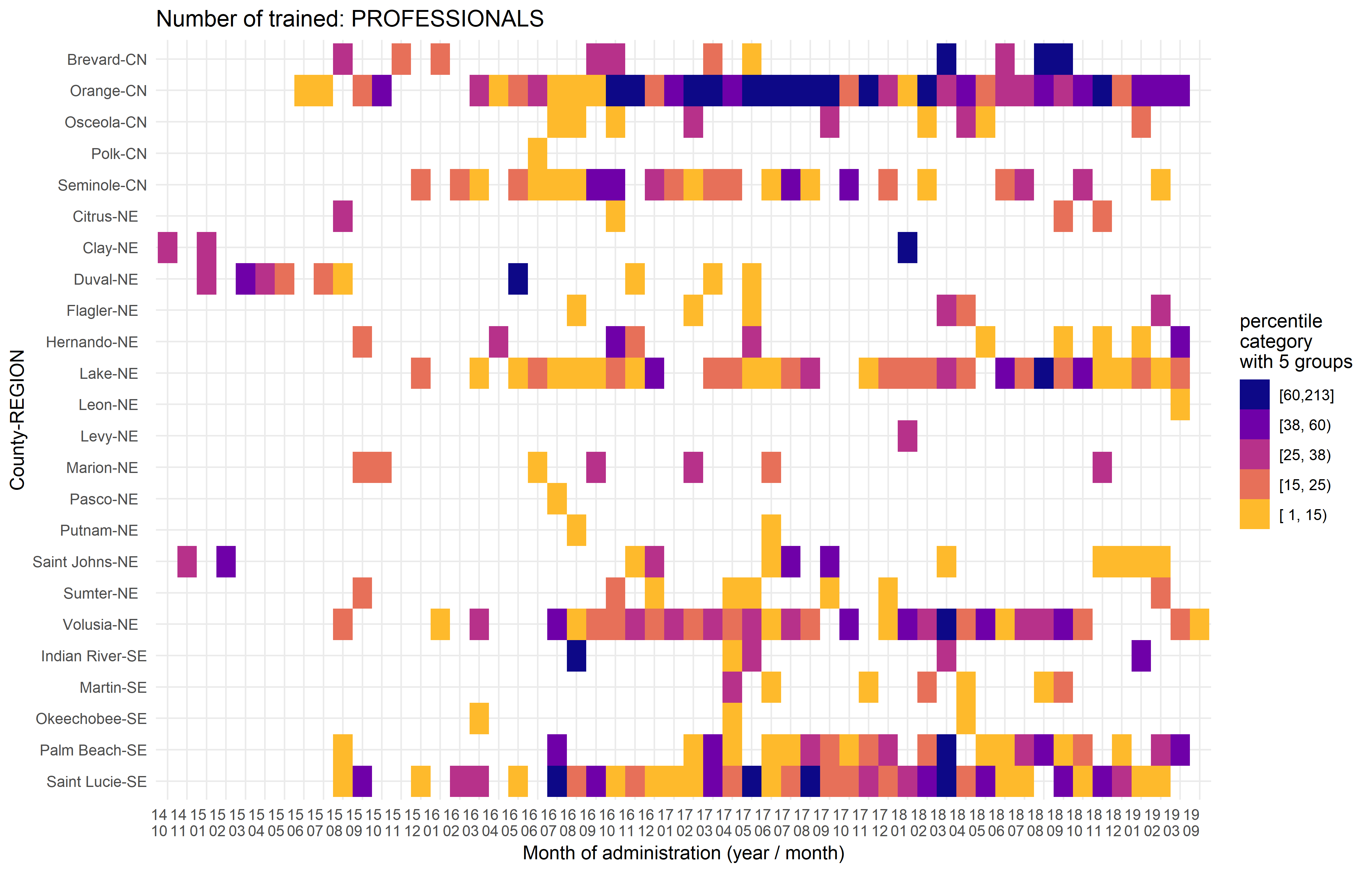
## Community

ds %>% show\_coverage("community")

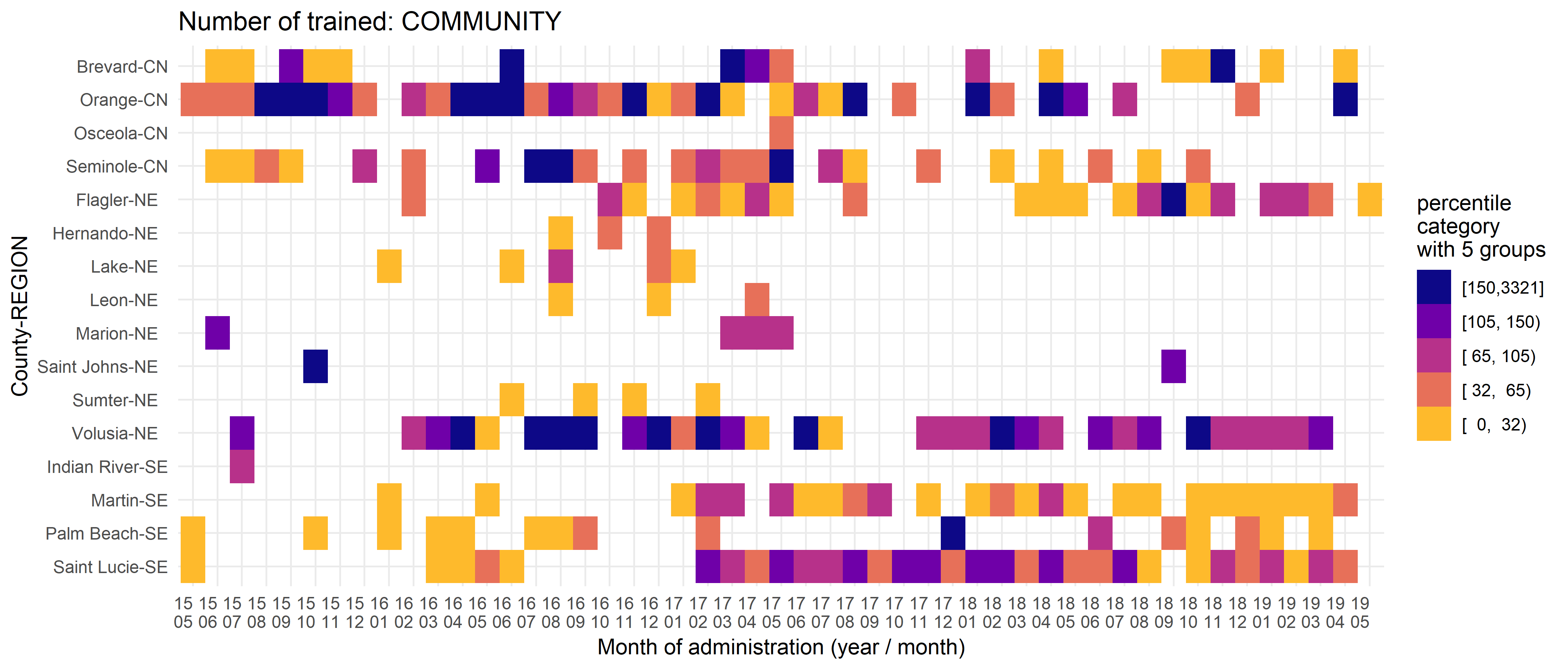


# IV Schedule

## Professionals



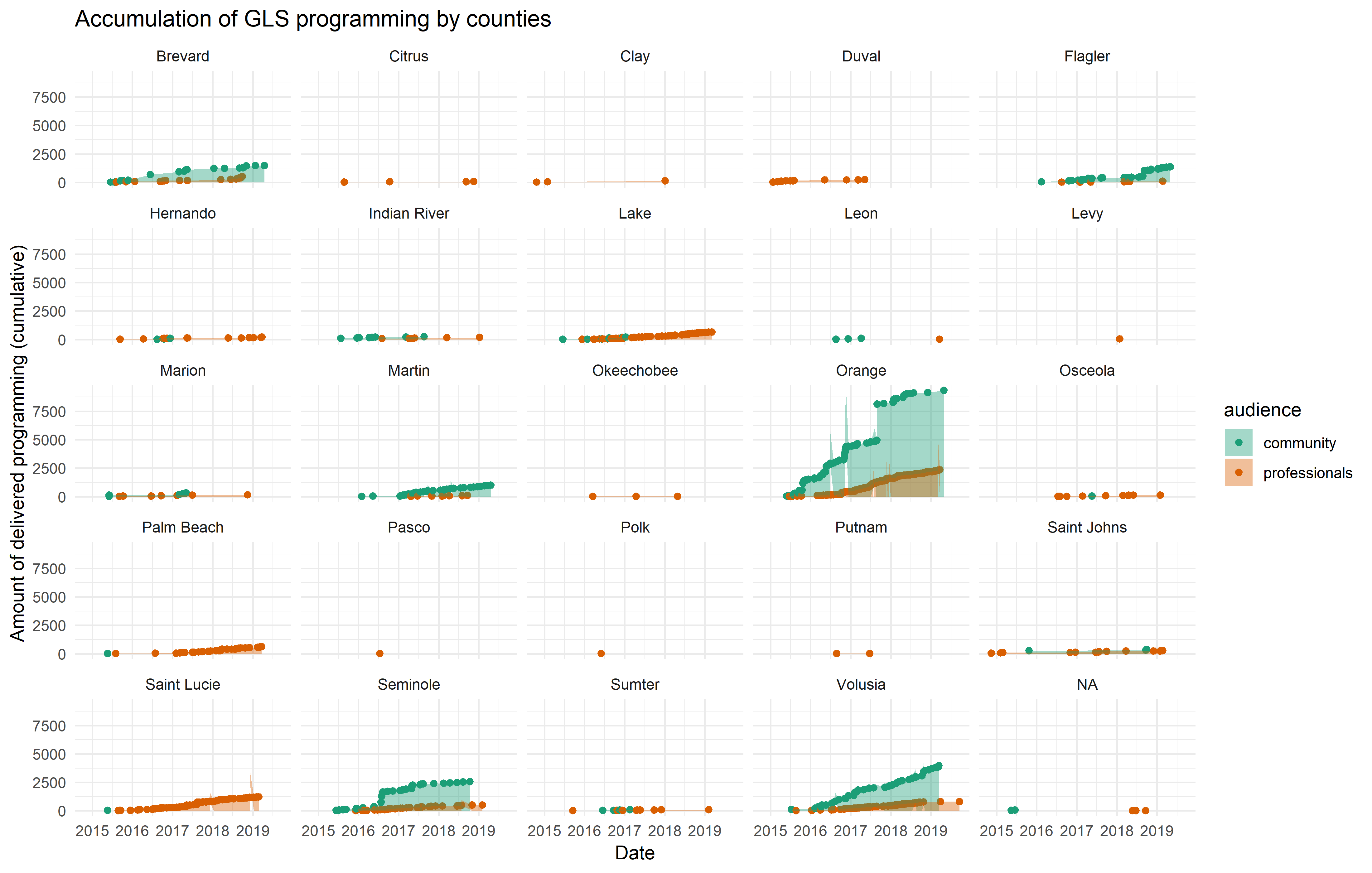
## Community



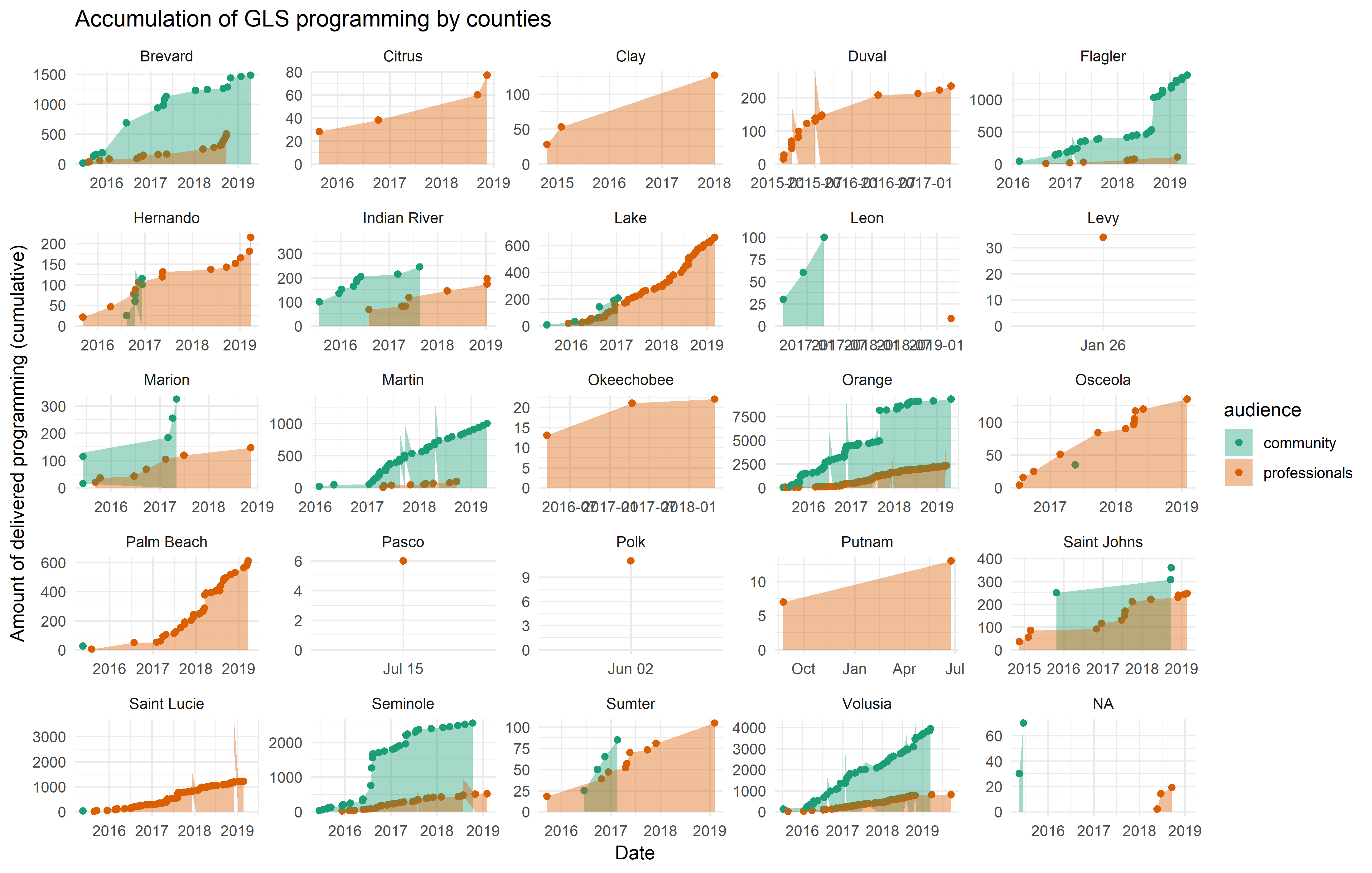
# V Accumulation

## Community + Professionals

### Raw

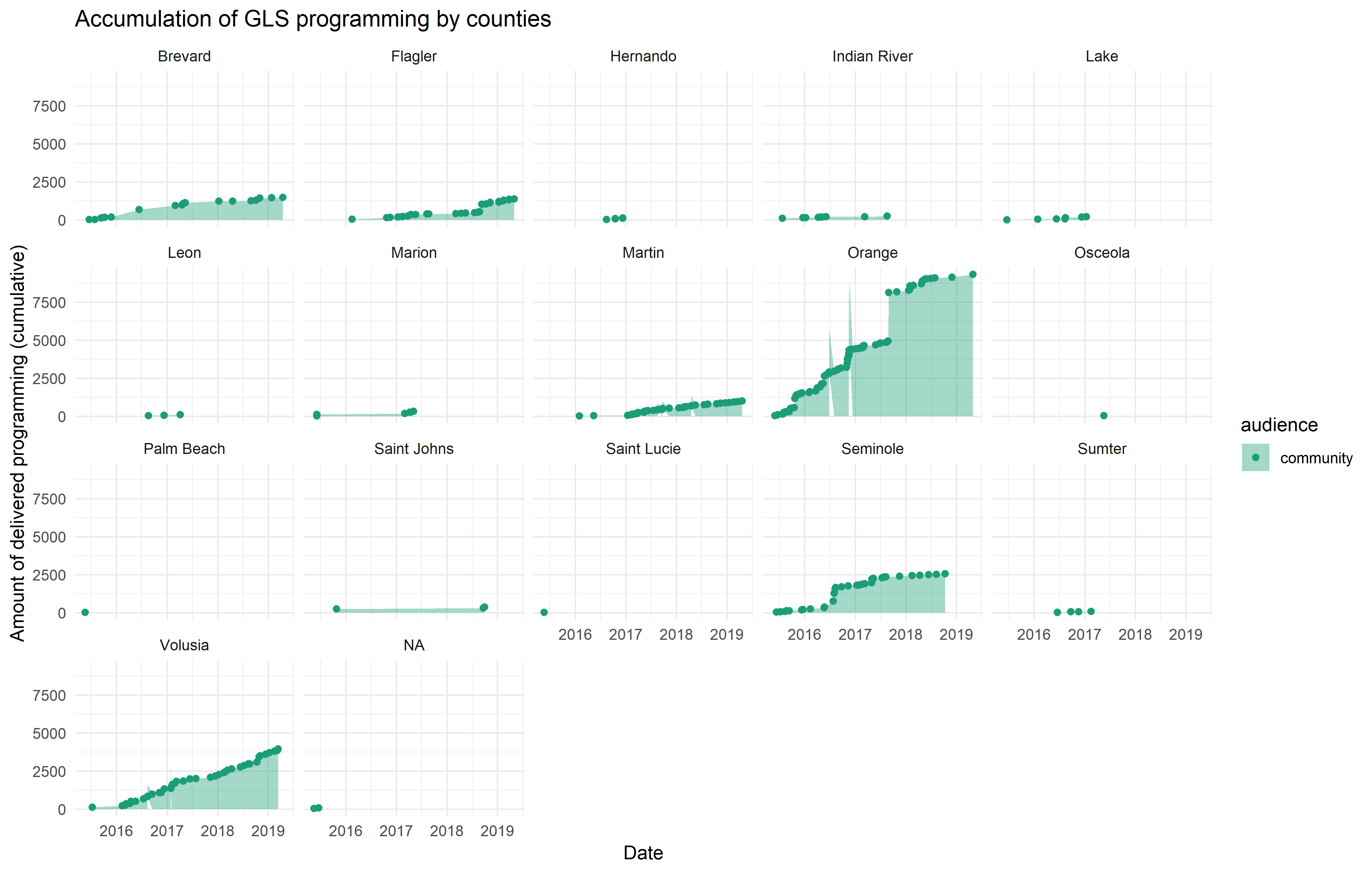


### Free Scale

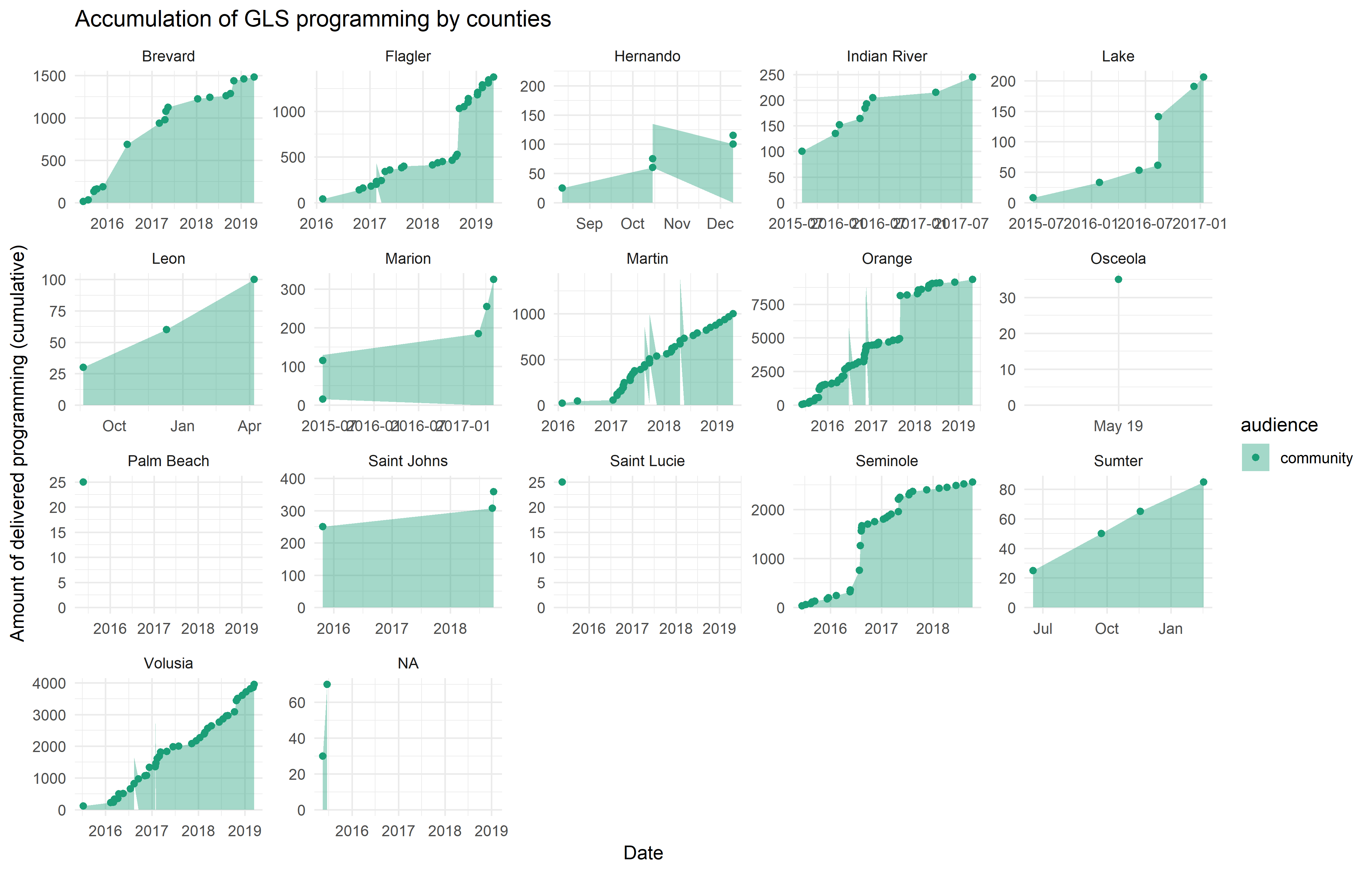


## Community

### Raw

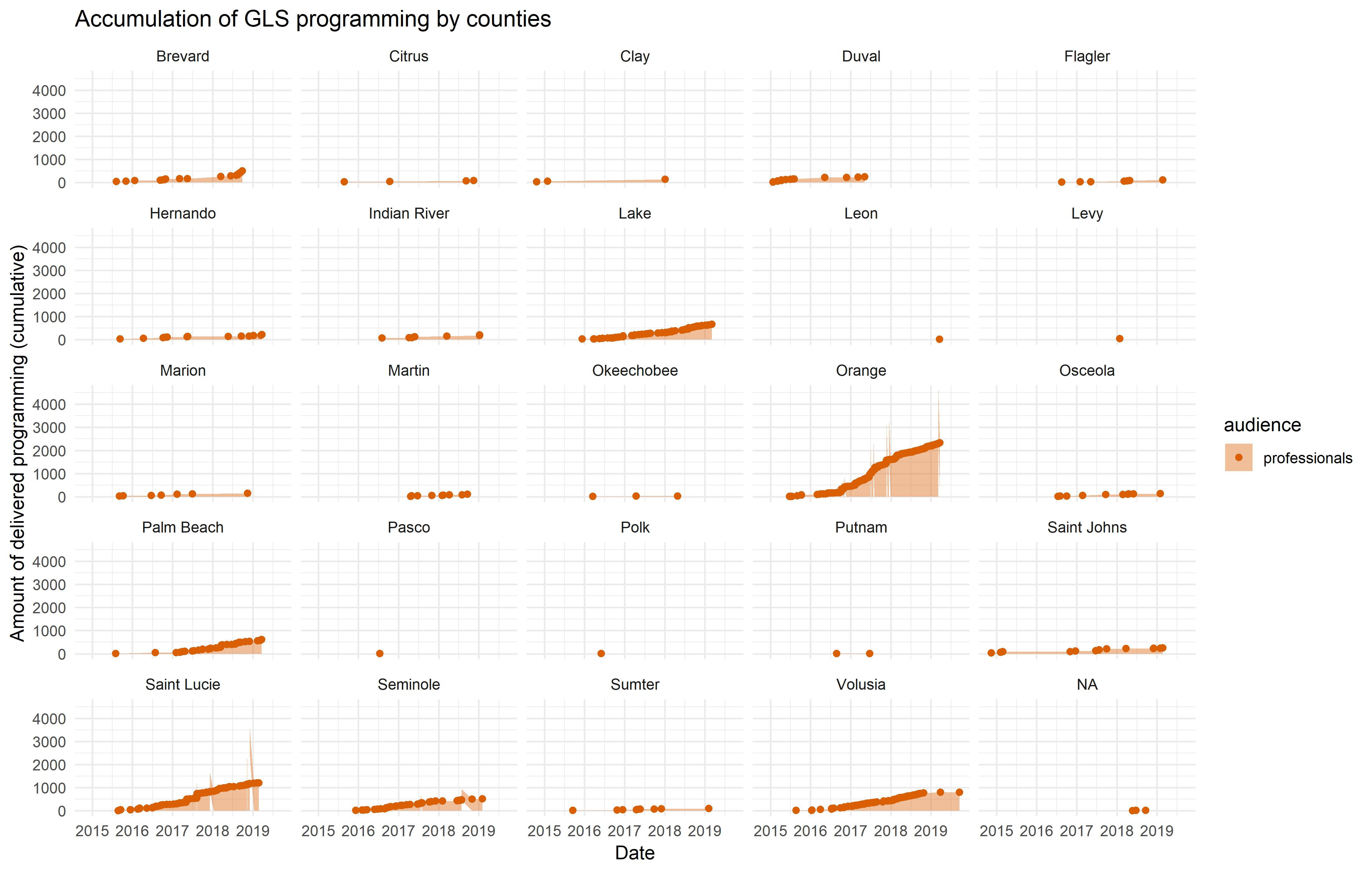


### Free Scale

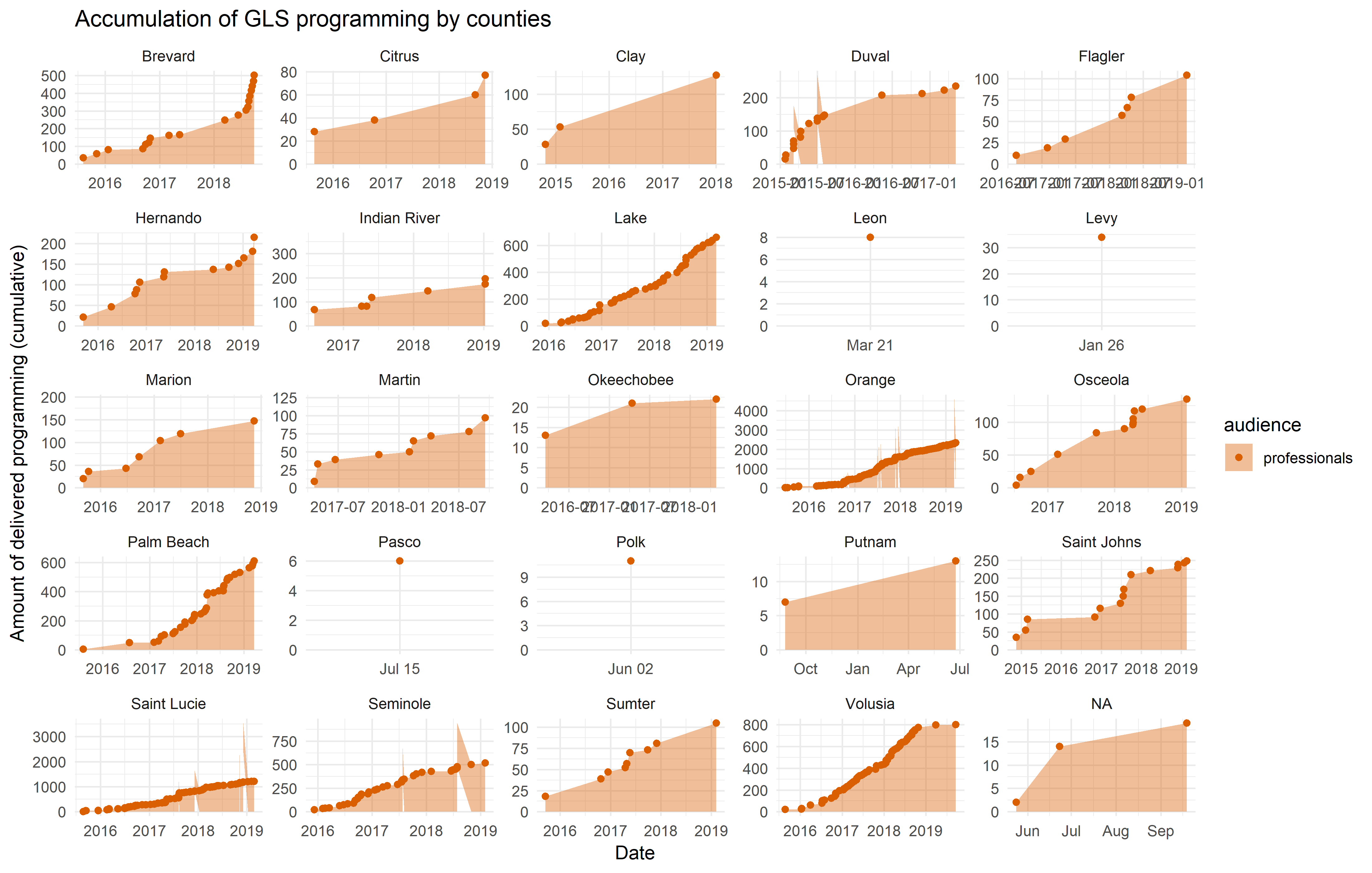


## Professionals

### Raw



### Free Scale



# III. Recapitulation

* **Orange** county received the most of GLS programming (1-scatter](#1\_county\_scatter))
  + The next cluser of counties with high programming:
    - **Volusia** + **St Lucie**
    - **Palrm Beach** + **Brevard** + **Seminole**
    - **Lake**

# Session Information

For the sake of documentation and reproducibility, the current report was rendered in the following environment. Click the line below to expand.

Environment

- Session info -------------------------------------------------------------------------------------------------------  
 setting value   
 version R version 3.5.2 (2018-12-20)  
 os Windows 10 x64   
 system x86\_64, mingw32   
 ui RTerm   
 language (EN)   
 collate English\_United States.1252   
 ctype English\_United States.1252   
 tz America/Los\_Angeles   
 date 2019-06-28   
  
- Packages -----------------------------------------------------------------------------------------------------------  
 package \* version date lib source   
 abind 1.4-5 2016-07-21 [1] CRAN (R 3.5.2)  
 acepack 1.4.1 2016-10-29 [1] CRAN (R 3.5.3)  
 assertthat 0.2.1 2019-03-21 [1] CRAN (R 3.5.3)  
 backports 1.1.4 2019-04-10 [1] CRAN (R 3.5.3)  
 base64enc 0.1-3 2015-07-28 [1] CRAN (R 3.5.2)  
 callr 3.2.0 2019-03-15 [1] CRAN (R 3.5.3)  
 car 3.0-3 2019-05-27 [1] CRAN (R 3.5.3)  
 carData 3.0-2 2018-09-30 [1] CRAN (R 3.5.2)  
 cellranger 1.1.0 2016-07-27 [1] CRAN (R 3.5.3)  
 checkmate 1.9.3 2019-05-03 [1] CRAN (R 3.5.3)  
 cli 1.1.0 2019-03-19 [1] CRAN (R 3.5.3)  
 cluster 2.0.9 2019-05-01 [1] CRAN (R 3.5.3)  
 codetools 0.2-16 2018-12-24 [1] CRAN (R 3.5.2)  
 colorspace 1.4-1 2019-03-18 [1] CRAN (R 3.5.3)  
 crayon 1.3.4 2017-09-16 [1] CRAN (R 3.5.3)  
 curl 3.3 2019-01-10 [1] CRAN (R 3.5.3)  
 data.table 1.12.2 2019-04-07 [1] CRAN (R 3.5.3)  
 desc 1.2.0 2018-05-01 [1] CRAN (R 3.5.3)  
 devtools 2.0.2 2019-04-08 [1] CRAN (R 3.5.3)  
 digest 0.6.19 2019-05-20 [1] CRAN (R 3.5.3)  
 dplyr \* 0.8.1 2019-05-14 [1] CRAN (R 3.5.3)  
 DT 0.6 2019-05-09 [1] CRAN (R 3.5.3)  
 evaluate 0.14 2019-05-28 [1] CRAN (R 3.5.2)  
 explore 0.4.2 2019-05-22 [1] CRAN (R 3.5.3)  
 fansi 0.4.0 2018-10-05 [1] CRAN (R 3.5.3)  
 forcats 0.4.0 2019-02-17 [1] CRAN (R 3.5.3)  
 foreign 0.8-71 2018-07-20 [2] CRAN (R 3.5.2)  
 Formula 1.2-3 2018-05-03 [1] CRAN (R 3.5.2)  
 fs 1.3.1 2019-05-06 [1] CRAN (R 3.5.3)  
 ggplot2 \* 3.1.1 2019-04-07 [1] CRAN (R 3.5.3)  
 ggpubr \* 0.2 2018-11-15 [1] CRAN (R 3.5.3)  
 glue 1.3.1 2019-03-12 [1] CRAN (R 3.5.3)  
 gridExtra 2.3 2017-09-09 [1] CRAN (R 3.5.3)  
 gtable 0.3.0 2019-03-25 [1] CRAN (R 3.5.3)  
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Report rendered by an499583 at 2019-06-28, 11:17 -0700 in 38 seconds.