```
## -- Attaching packages -------------------------------------- tidyverse 1.3.0 --

## v ggplot2 3.3.2     v purrr   0.3.4
## v tibble  3.0.4     v dplyr   1.0.0
## v tidyr   1.1.2     v stringr 1.4.0
## v readr   1.4.0     v forcats 0.5.0

## -- Conflicts ----------------------------------------- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()    masks stats::lag()

##
## Attaching package: 'scales'

## The following object is masked from 'package:purrr':
##
##     discard

## The following object is masked from 'package:readr':
##
##     col_factor

##
## Attaching package: 'zoo'

## The following objects are masked from 'package:base':
##
##     as.Date, as.Date.numeric

##
## Attaching package: 'kableExtra'

## The following object is masked from 'package:dplyr':
##
##     group_rows

##
## Attaching package: 'lubridate'

## The following objects are masked from 'package:base':
##
##     date, intersect, setdiff, union

## `summarise()` regrouping output by 'Quarantine', 'Location2' (override with `.groups` argument)

## `summarise()` regrouping output by 'Location2' (override with `.groups` argument)
## `summarise()` regrouping output by 'Location2' (override with `.groups` argument)
## `summarise()` regrouping output by 'Location2' (override with `.groups` argument)

## `summarise()` ungrouping output (override with `.groups` argument)

## `summarise()` regrouping output by 'Isolated' (override with `.groups` argument)

## `summarise()` ungrouping output (override with `.groups` argument)
## `summarise()` ungrouping output (override with `.groups` argument)
## `summarise()` ungrouping output (override with `.groups` argument)
## `summarise()` ungrouping output (override with `.groups` argument)

## `summarise()` regrouping output by 'Test_Date' (override with `.groups` argument)

## `summarise()` ungrouping output (override with `.groups` argument)
## `summarise()` ungrouping output (override with `.groups` argument)
## `summarise()` ungrouping output (override with `.groups` argument)
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```


Grace College Internal COVID-19 Data

Compiled by Dr. Ryan Johnson using contact tracing data from Laura Green and Nicole Gibson, as well as testing data from the state of Indiana.

Last updated Wednesday, January 13, 2021, at 10:37AM

Notes and Irregularities:

- Quarantined from international travel are a subcategory of students quarantined at Grace.

Cases

Confirmed Cases Among Students

As of yesterday, Grace College had

```
CS_Tab %>%
  select(Type, Total, at_Home, at_Grace)%>%
  kableExtra::kable(caption = "Student Cases", booktabs = TRUE, format = "latex") %>%
  kable_styling(latex_options = "striped")%>%
  kable_styling(latex_options = "hold_position")
```

Table 1: Student Cases

Type	Total	at_Home	at_Grace
Active on Tue Jan 12	0	0	0
Spring Semester Total	0	0	0
20-21 Academic Year Total	111	72	39

Confirmed Cases Among Employees

As of yesterday, Grace College had

Table 2: Employee Cases

Type	Cases
Active on Tue Jan 12	2
Spring Semester Total	2
20-21 Academic Year Total	37

Active Confirmed Cases Among Employees Each Day
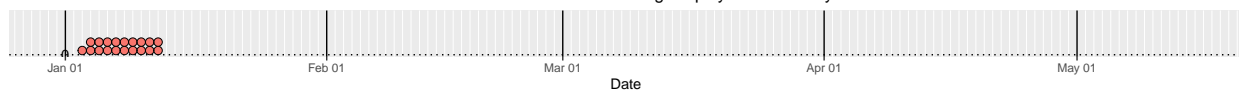
Isolated

Isolated Students

Table 3: Student Isolations

Type	Total	at_Home	at_Grace
Active on Tue Jan 12	0	0	0
Spring Semester Total	0	0	0
20-21 Academic Year Total	204	140	64
20-21 Academic Year Unique Students	197	133	64

Isolated Employees

As of yesterday, Grace College had

Table 4: Employee Isolations

Type	Isolated
Active on Tue Jan 12	3
Spring Semester Total	3
20-21 Academic Year Total	55

Active Isolated Employees Each Day

Date
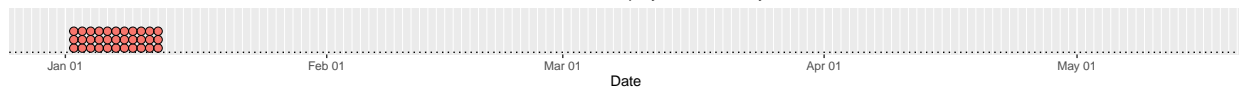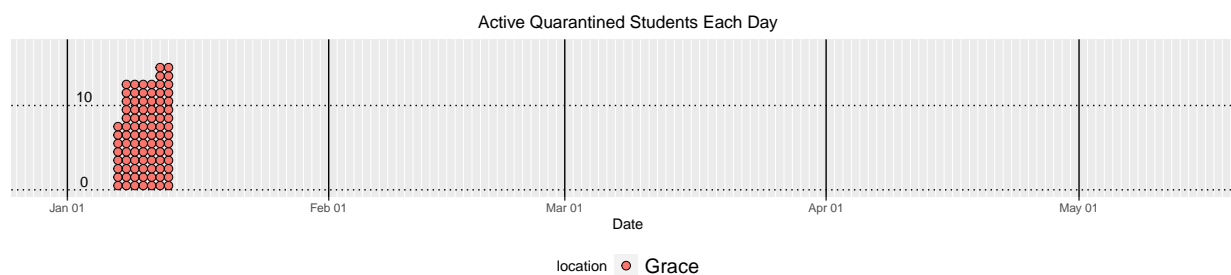
Quarantined

Quarantined Students

In the table below, `from_travel` is a subcategory of `at_Grace`.

Table 5: Student Quarantines

Type	Total	at_Home	at_Grace	from_travel
Active on Tue Jan 12	15	0	15	15
Spring Semester Total	15	0	15	15
20-21 Academic Year Total	486	345	140	40
20-21 Academic Year Unique Students	448	316	131	34

Active Quarantined Students Each Day

Quarantined Employees

As of yesterday, Grace College had

Table 6: Employee Quarantines

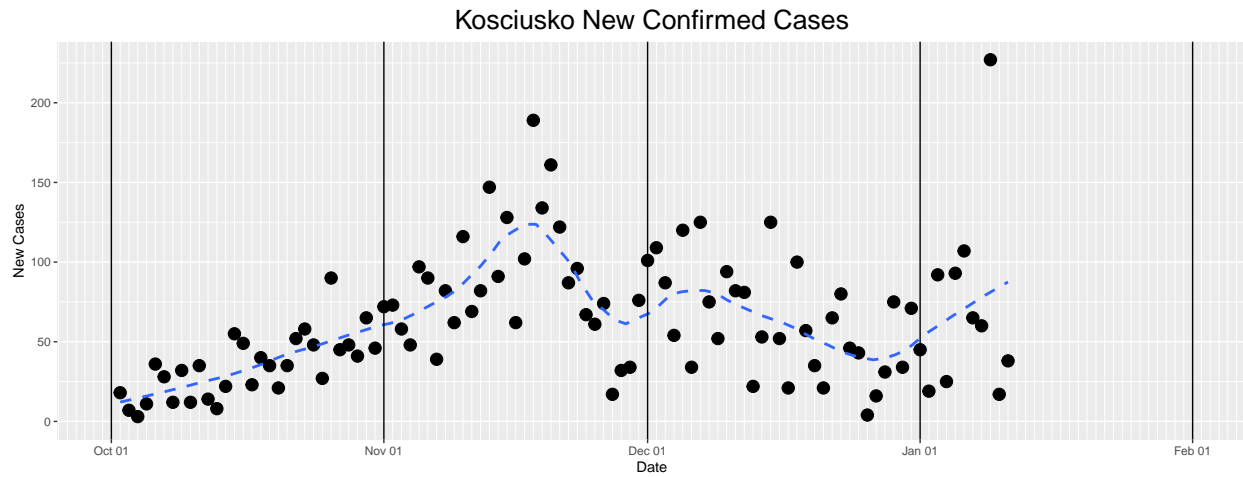| Type	Quarantine
Active on Tue Jan 12	1
Spring Semester Total	2
20-21 Academic Year Total	58

Active Quarantined Employees Each Day
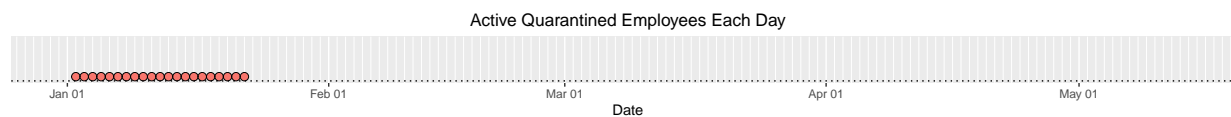
Kosciusko County

Kosciusko County has had

- 87 cases per day the past week.
- 6337 total confirmed cases.

Cases - Kosciusko

```
## `geom_smooth()` using method = 'loess' and formula 'y ~ x'
```
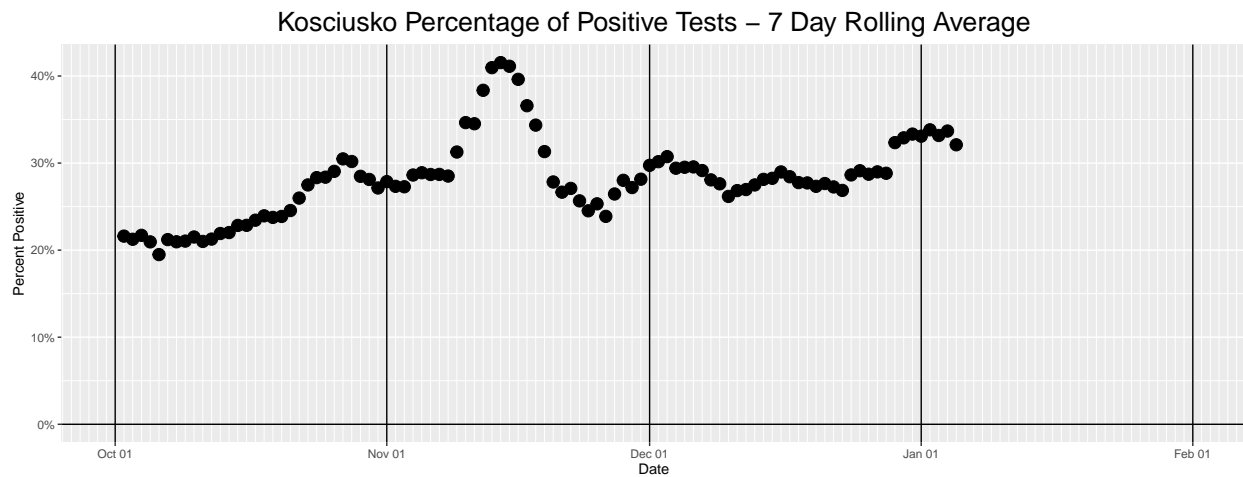

Kosciusko New Confirmed Cases

Positivity - Kosciusko

Kosciusko County has had 32.1% 7-day positivity rate for unique indiviudals as of January 05.

Kosciusko Percentage of Positive Tests – 7 Day Rolling Average

Indiana

The total case numbers below are multiplied by $\frac{\text{Kos pop}}{\text{Ind pop}} = \frac{79456}{6732000} = 0.01180273$, so that it is easier to compare Kosciusko numbers to the average Indiana county.

Indiana has had

- 5360.4 cases per day the past week (normalized 63.3).
- 447,991 total confirmed cases (normalized 5287.5).
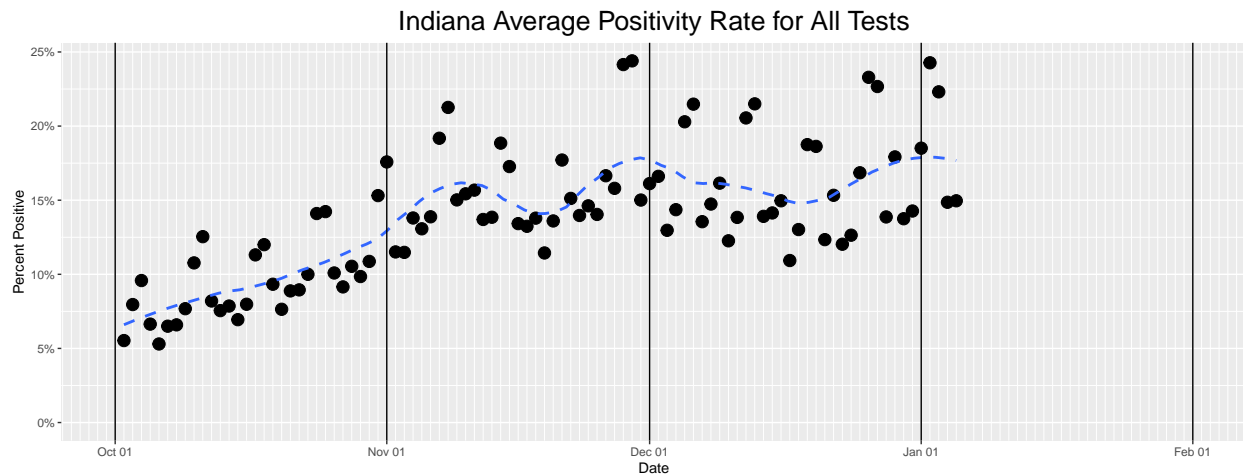
Cases - Indiana

```
## `geom_smooth()` using method = 'loess' and formula 'y ~ x'
```
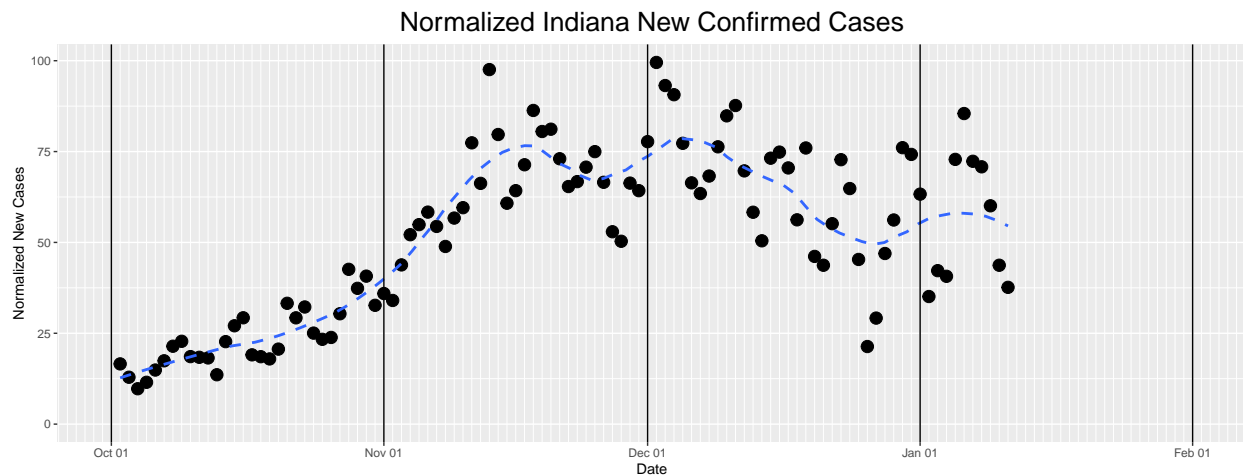

Positivity - Indiana

Indiana reports a 15% 7-day positivity rate for all tests as of January 05.

```
## `geom_smooth()` using method = 'loess' and formula 'y ~ x'
```

Indiana Map

The map below displays the cases per 100,000 per day averaged over the past week and the positivity rate for unique individuals averaged over the previous week. The coloring scheme is relative, it colors the best county white and the worst county red.