

# CREC Summary

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## Quarto

Quarto enables you to weave together content and executable code into a finished document. To learn more about Quarto see <https://quarto.org>.

## Running Code

When you click the **Render** button a document will be generated that includes both content and the output of embedded code. You can embed code like this:

```
library(tidyverse)
```

```
-- Attaching core tidyverse packages ----- tidyverse 2.0.0 --
v dplyr      1.1.0      v readr      2.1.4
v forcats    1.0.0      v stringr    1.5.0
v ggplot2    3.4.1      v tibble     3.2.0
v lubridate  1.9.2      v tidyr      1.3.0
v purrr      1.0.1
-- Conflicts ----- tidyverse_conflicts() --
x dplyr::filter() masks stats::filter()
x dplyr::lag()     masks stats::lag()
i Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to become
```

```
library(TannersTools)
library(lubridate)
library(scales)
```

Attaching package: 'scales'

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

discard

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

col\_factor

```
library(directlabels)
library(fredr)
library(ggtext)
library(ggalt)
```

Registered S3 methods overwritten by 'ggalt':

method	from
grid.draw.absoluteGrob	ggplot2
grobHeight.absoluteGrob	ggplot2
grobWidth.absoluteGrob	ggplot2
grobX.absoluteGrob	ggplot2
grobY.absoluteGrob	ggplot2

```
mea_red <- "#C10230"
mea_blue <- "#003057"
mea_green <- "#00A651"
line_width <- 1
```

```
tt_dir_rd()
```

here() starts at C:/Users/Tdelpier/OneDrive - Michigan Education Special Services Association

```
crec <- read_csv("CREC/CREC_Data.csv") %>%
  mutate(crec.date = mdy(crec.date),
         crec.year = year(crec.date),
         crec.month = month(crec.date),
         est.year = crec.year + est.time,
```

```
latest.crec = ifelse(crec.date == max(crec.date), 1, 0))
```

Rows: 96 Columns: 4

```
-- Column specification -----
Delimiter: ","
chr (2): crec.date, fund
dbl (1): est.time
num (1): net.rev

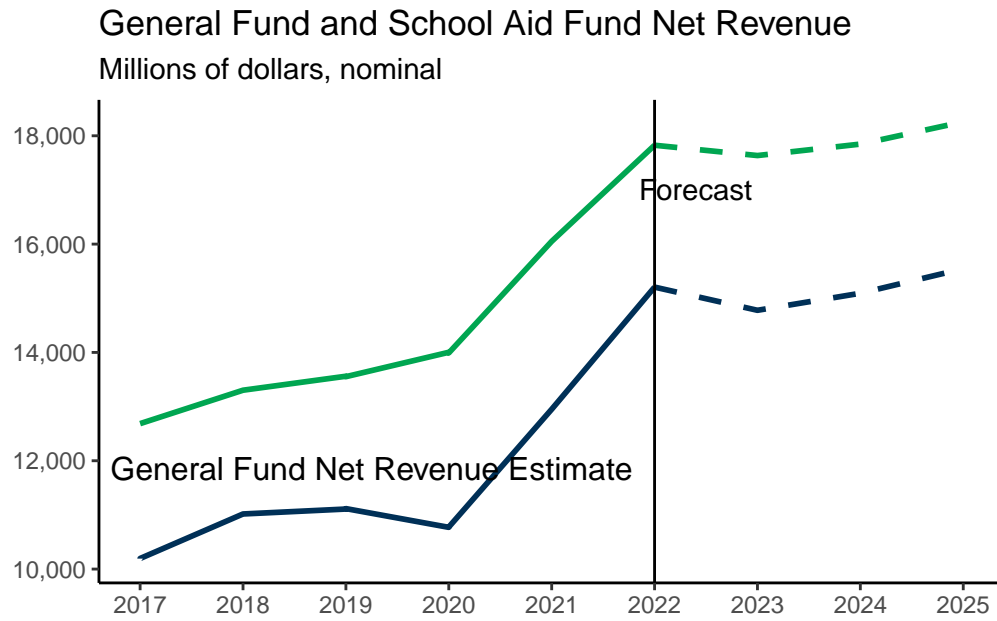
i Use `spec()` to retrieve the full column specification for this data.
i Specify the column types or set `show_col_types = FALSE` to quiet this message.
```

You can add options to executable code like this

```
crec %>%
  ggplot(aes(x = est.year, y = net.rev))+
  geom_line(data = crec %>% filter(latest.crec == 1, fund == "SAF"), color = mea_green, lwd = 2)+
  geom_line(data = crec %>% filter(est.time == -1, fund == "SAF"), color = mea_green, lwd = 2)+
  geom_line(data = crec %>% filter(latest.crec == 1, fund == "GF"), color = mea_blue, lwd = 2)+
  geom_line(data = crec %>% filter(est.time == -1, fund == "GF"), color = mea_blue, lwd = 2)+
  geom_dl(data = crec %>% filter(est.time == 2, fund == "GF"),
    aes(label = "General Fund Net Revenue Estimate"), method = "smart.grid")+

  geom_vline(aes(xintercept = (max(crec$crec.year) - 1)))+
  # geom_text(aes(x = (max(crec$crec.year) - 0.6), y = 17000, label = "Forecast"))+
  annotate("text", x = (max(crec$crec.year) - 0.6), y = 17000, label = "Forecast")+
  # geom_point(aes(x = max(crec$est.year), y = 16000))+
  scale_y_continuous(labels = comma_format())+
  scale_x_continuous(labels = number_format(accuracy = 1, big.mark = ""),
    n.breaks = (max(crec$est.year) - min(crec$est.year)))+
  theme_classic()+
  labs(title = "General Fund and School Aid Fund Net Revenue",
    subtitle = "Millions of dollars, nominal",
    y = "",
    x = "")
```

Warning: Use of `crec\$crec.year` is discouraged.  
i Use `crec.year` instead.



The `echo: false` option disables the printing of code (only output is displayed).