# DATA 607: Week 6

### Cindy Lin and William Forero

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## INTRODUCTION

Week 6 project's goal is to transform three untidy data set and tidy/transform them and generate the discussed analysis. Data Set#1 - tax dataset for 2022

### Loading library

## ##

```
library (tidyverse)
## -- Attaching core tidyverse packages ----- tidyverse 2.0.0 --
## v dplyr
              1.1.4
                        v readr
                                     2.1.5
## v forcats
              1.0.0
                        v stringr
                                     1.5.1
## v ggplot2
              3.5.1
                        v tibble
                                     3.2.1
## v lubridate 1.9.3
                        v tidyr
                                     1.3.1
## v purrr
              1.0.2
## -- Conflicts ------ tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()
                    masks stats::lag()
## i Use the conflicted package (<a href="http://conflicted.r-lib.org/">http://conflicted.r-lib.org/</a>) to force all conflicts to become error
library (janitor)
## Attaching package: 'janitor'
```

I am loading the tidyverse library because there are functions that can help tidy the loaded data. Janitor library is needed for the clean names function.

### Loading the data and removing rows

chisq.test, fisher.test

## The following objects are masked from 'package:stats':

```
get_data <- read.csv("22.csv", skip = 3)</pre>
# Skip the first row to get the header
get_data <- get_data %>% select(-c(22:25))
# Remove duplicate entries
glimpse(get_data)
## Rows: 198
## Columns: 21
## $ All.returns
                                                     <chr> "Number\nof\nreturn~
## $ X
                                                     <chr> "Percent\nof total"~
## $ X.1
                                                     <chr> "Adjusted gross\nin~
## $ X.2
                                                     <chr> "", "", "Percent\no~
                                                     <chr> "", "", "Average\n(~
## $ X.3
## $ Taxable.returns
                                                     <chr> "Number\nof\nreturn~
## $ X.4
                                                     <chr> "Percent\nof total"~
## $ X.5
                                                     <chr> "Adjusted gross\nin~
                                                     <chr> "", "", "Percent\no~
## $ X.6
## $ X.7
                                                     <chr> "Taxable income", "~
                                                     <chr> "", "Amount", "", "~
## $ X.8
                                                     <chr> "", "Percent of\nto~
## $ X.9
## $ X.10
                                                     <chr> "Income tax after c~
                                                     <chr> "", "Amount", "", "~
## $ X.11
## $ X.12
                                                     <chr> "", "Percent of\nto~
## $ X.13
                                                     <chr> "Total income tax",~
## $ X.14
                                                     <chr> "", "Percent of", "~
                                                     <chr> "", "", "Taxable\ni~
## $ X.15
                                                     <chr> "", "", "Adjusted g~
## $ X.16
                                                     <chr> "", "Average\ntotal~
## $ X.17
```

Loading the data

### Renaming columns

```
colnames(get_data) <- c(</pre>
"Adjusted.gross.income",
"All_Returns_Count",
"All_Returns_Percent",
"All_Adjusted.gross.income.less.deficit_Amount",
"All_Adjusted.gross.income.less.deficit_Percent",
"All_Average.adjusted.gross.income.less.deficit_Amount",
"Taxable_Returns_Amount",
"Taxable_Returns_Percent",
"Taxable_Adjusted.gross.income.less.deficit_Amount",
"Taxable_Adjusted.gross.income.less.deficit_Percent",
"Taxable Taxable.Income Count",
"Taxable_Taxable.Income_Amount",
"Taxable_Taxable.Income_Percent",
"Taxable_Income.tax.after.credits_Count",
"Taxable_Income.tax.after.credits_Amount",
```

```
"Taxable_Income.tax.after.credits_Percent",
"Taxable_Total_Income.Tax_Amount",
"Taxable_Total_Percent",
"Taxable_Total_Taxable.income_Percent",
"Taxable_Total_Adjusted.gross.income.less.deficit_Percent",
"Taxable_Average.total.income.tax_Amount"
))
# renamed the columns
df <- get_data[-c(27:198), ]
# removed empty rows
df <- df[-c(1:7), ]
#removed row 1 - 7 (not needed information)
df <- df %>% clean_names()
#clean the column names to make it consistent
glimpse(df)
```

```
## Rows: 19
## Columns: 21
## $ adjusted_gross_income
                                                               <chr> "No adjusted ~
## $ all_returns_count
                                                               <chr> "3,254,225", ~
## $ all_returns_percent
                                                               <chr> "2.0", "5.1",~
## $ all_adjusted_gross_income_less_deficit_amount
                                                               <chr> "-164,160,281~
## $ all adjusted gross income less deficit percent
                                                               <chr> "[1]", "0.1",~
## $ all_average_adjusted_gross_income_less_deficit_amount
                                                               <chr> "-50,445", "2~
## $ taxable_returns_amount
                                                               <chr> "3,843", "105~
## $ taxable_returns_percent
                                                               <chr> "[2]", "0.1",~
## $ taxable_adjusted_gross_income_less_deficit_amount
                                                               <chr> "-9,734,295",~
## $ taxable adjusted gross income less deficit percent
                                                               <chr> "[1]", "[2]",~
## $ taxable_taxable_income_count
                                                               <chr> "0", "101,922~
                                                              <chr> "0", "150,163~
## $ taxable_income_amount
## $ taxable_taxable_income_percent
                                                               <chr> "0.0", "[2]",~
                                                               <chr> "3,843", "105~
## $ taxable_income_tax_after_credits_count
                                                              <chr> "128,418", "1~
## $ taxable_income_tax_after_credits_amount
                                                              <chr> "[2]", "[2]",~
## $ taxable income tax after credits percent
                                                               <chr> "128,418", "1~
## $ taxable_total_income_tax_amount
## $ taxable_total_percent
                                                               <chr> "[2]", "[2]",~
                                                              <chr> "[1]", "12.5"~
## $ taxable_total_taxable_income_percent
## $ taxable_total_adjusted_gross_income_less_deficit_percent <chr>> "[1]", "5.6",~
## $ taxable_average_total_income_tax_amount
                                                               <chr> "33,416", "17~
```

Renamed the columns as this is important for the next step when I have to format the structure to a long format. The column names will point to how othe structure will be. For example, the period and underscore of the naming convention is intentional as the underscore serves as the separator.

# Long format

```
df_tidy <- df %>%
pivot_longer(
cols = -`adjusted_gross_income`,
names_to = c("Return_Type", "Category", "Metric"),
```

```
names_pattern = "^([^_]+)_(.*)_([^_]+)$",
values_to = "Value"
)
knitr::kable(df_tidy) %>%
  kableExtra::kable_styling(font_size = 6)
```

adjusted_gross_income	Return_Type	Category	Metric	Value
No adjusted gross income	all	returns	count	3,254,225
No adjusted gross income	all	returns	percent	2.0
No adjusted gross income	all	adjusted_gross_income_less_deficit	amount	-164,160,2
No adjusted gross income	all	adjusted_gross_income_less_deficit	percent	[1]
No adjusted gross income	all	$average\_adjusted\_gross\_income\_less\_deficit$	amount	-50,445
No adjusted gross income	taxable	returns	amount	3,843
No adjusted gross income	taxable	returns	percent	[2]
No adjusted gross income	taxable	adjusted_gross_income_less_deficit	amount	-9,734,295
No adjusted gross income	taxable	adjusted_gross_income_less_deficit	percent	[1]
No adjusted gross income	taxable	taxable_income	count	0
	taxable	taxable_income		0
No adjusted gross income	taxable	taxable_income	amount	
No adjusted gross income	taxable	_	percent	0.0 3.843
No adjusted gross income		income_tax_after_credits	count	- ,
No adjusted gross income	taxable	income_tax_after_credits	amount	128,418
No adjusted gross income	taxable	income_tax_after_credits	percent	[2]
No adjusted gross income	taxable	total_income_tax	amount	128,418
No adjusted gross income	taxable	total	percent	[2]
No adjusted gross income	taxable	total_taxable_income	percent	[1]
No adjusted gross income	taxable	$total\_adjusted\_gross\_income\_less\_deficit$	percent	[1]
No adjusted gross income	taxable	average_total_income_tax	amount	33,416
\$1 under \$5,000	all	returns	count	8,195,783
\$1 under \$5,000	all	returns	percent	5.1
\$1 under \$5,000	all	adjusted_gross_income_less_deficit	amount	19,538,869
\$1 under \$5,000	all	adjusted_gross_income_less_deficit	percent	0.1
\$1 under \$5,000	all	average_adjusted_gross_income_less_deficit	amount	2,384
\$1 under \$5,000	taxable	returns	amount	105,475
\$1 under \$5,000 \$1 under \$5,000	taxable	returns	percent	0.1
\$1 under \$5,000 \$1 under \$5,000	taxable		-	
\$1 under \$5,000 \$1 under \$5,000	taxable	adjusted_gross_income_less_deficit	amount	331,665
\$1 under \$5,000 \$1 under \$5,000	taxable	adjusted_gross_income_less_deficit taxable_income	percent count	[2] 101,922
#1 dilder #5,000	taxabic	waxabic_income	count	101,522
\$1 under \$5,000	taxable	taxable_income	amount	150,163
\$1 under \$5,000	taxable	taxable_income	percent	[2]
\$1 under \$5,000	taxable	income_tax_after_credits	count	105,475
\$1 under \$5,000	taxable	income_tax_after_credits	amount	18,734
\$1 under \$5,000	taxable	income_tax_after_credits	percent	[2]
\$1 under \$5,000	taxable	total_income_tax	amount	18,735
\$1 under \$5,000	taxable	total	percent	[2]
\$1 under \$5,000	taxable	total_taxable_income	percent	12.5
\$1 under \$5,000	taxable	total_adjusted_gross_income_less_deficit	percent	5.6
\$1 under \$5,000	taxable	average_total_income_tax	amount	178
\$5,000 under \$10,000	all	returns	count	8,747,727
\$5,000 under \$10,000	all	returns	percent	5.4
\$5,000 under \$10,000	all	adjusted_gross_income_less_deficit	amount	66,070,756
\$5,000 under \$10,000	all	adjusted_gross_income_less_deficit	percent	0.4
\$5,000 under \$10,000	all	average_adjusted_gross_income_less_deficit	amount	7,553
\$5,000 under \$10,000	taxable	returns	amount	119,109
\$5,000 under \$10,000 \$5,000 under \$10,000	taxable	returns	percent	0.1
\$5,000 under \$10,000 \$5,000 under \$10,000	taxable	adjusted_gross_income_less_deficit	amount	878,182
\$5,000 under \$10,000 \$5,000 under \$10,000	taxable	adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit	percent	[2]
\$5,000 under \$10,000 \$5,000 under \$10,000	taxable	taxable income	count	119,102
		_		,
\$5,000 under \$10,000	taxable	taxable_income	amount	404,709
\$5,000 under \$10,000	taxable	taxable_income	percent	[2]
\$5,000 under \$10,000	taxable	income_tax_after_credits	count	119,109
\$5,000 under \$10,000	taxable	income_tax_after_credits	amount	41,423
\$5,000 under \$10,000	taxable	$income\_tax\_after\_credits$	percent	[2]
	taxable	total_income_tax	amount	41,423
\$5,000 under \$10,000				
	taxable	total	percent	2
\$5,000 under \$10,000 \$5,000 under \$10,000 \$5,000 under \$10,000	taxable taxable	total total taxable income	percent percent	[2] 10.2
\$5,000 under \$10,000			percent percent percent	[2] 10.2 4.7

\$10,000 under \$15,000	all	returns	count	9,642,322
\$10,000 under \$15,000	all	returns	percent	6.0
\$10,000 under \$15,000	all	adjusted_gross_income_less_deficit	amount	$120,\!502,\!825$
\$10,000 under \$15,000	all	adjusted_gross_income_less_deficit	percent	0.8
\$10,000 under \$15,000	all	$average\_adjusted\_gross\_income\_less\_deficit$	amount	12,497
\$10,000 under \$15,000	taxable	returns	amount	1,370,355
\$10,000 under \$15,000	taxable	returns	percent	1.2
\$10,000 under \$15,000	taxable	adjusted_gross_income_less_deficit	amount	19,112,665
\$10,000 under \$15,000	taxable	adjusted_gross_income_less_deficit	percent	0.1
\$10,000 under \$15,000	taxable	taxable_income	count	1,370,206
\$10,000 under \$15,000	taxable	taxable income	amount	1,851,999
\$10,000 under \$15,000	taxable	taxable_income	percent	[2]
\$10,000 under \$15,000	taxable	income tax after credits	count	1,370,355
\$10,000 under \$15,000	taxable	income_tax_after_credits	amount	188,178
\$10,000 under \$15,000	taxable	income_tax_after_credits	percent	[2]
			•	
\$10,000 under \$15,000	taxable	total_income_tax	amount	188,178
\$10,000 under \$15,000	taxable	total	percent	[2]
\$10,000 under \$15,000	taxable	total_taxable_income	percent	10.2
\$10,000 under \$15,000 \$10,000 under \$15,000	taxable taxable	total_adjusted_gross_income_less_deficit	percent amount	1.0 137
\$10,000 under \$15,000	taxable	average_total_income_tax	amount	137
\$15,000 under \$20,000	all	returns	count	9,058,382
\$15,000 under \$20,000	all	returns	percent	5.6
\$15,000 under \$20,000	all	adjusted_gross_income_less_deficit	amount	157,738,693
\$15,000 under \$20,000	all	adjusted_gross_income_less_deficit	percent	1.1
\$15,000 under \$20,000	all	average_adjusted_gross_income_less_deficit	amount	17,414
\$15,000 under \$20,000	taxable	returns	amount	4,429,445
\$15,000 under \$20,000	taxable	returns	percent	4.0
\$15,000 under \$20,000	taxable	adjusted gross income less deficit	amount	77,383,332
\$15,000 under \$20,000	taxable	adjusted_gross_income_less_deficit	percent	0.6
\$15,000 under \$20,000	taxable	taxable_income	count	4,429,434
\$15,000 under \$20,000	taxable	taxable income	amount	19 549 019
\$15,000 under \$20,000 \$15,000 under \$20,000	taxable	taxable_income taxable_income	percent	18,548,012 $0.2$
\$15,000 under \$20,000 \$15,000 under \$20,000	taxable	income_tax_after_credits	count	4,429,442
\$15,000 under \$20,000	taxable	income_tax_after_credits	amount	1,735,910
\$15,000 under \$20,000 \$15,000 under \$20,000	taxable	income_tax_after_credits	percent	0.1
			-	
\$15,000 under \$20,000	taxable	total_income_tax	amount	1,736,237
\$15,000 under \$20,000	taxable	total	percent	0.1
\$15,000 under \$20,000	taxable	total_taxable_income	percent	9.4
\$15,000 under \$20,000	taxable	total_adjusted_gross_income_less_deficit	percent	2.2
\$15,000 under \$20,000	taxable	average_total_income_tax	amount	392
	11	returns	count	8,035,277
\$20,000 under \$25,000	all			F 0
\$20,000 under \$25,000 \$20,000 under \$25,000	all	returns	percent	5.0
		returns adjusted_gross_income_less_deficit		5.0 180,311,082
\$20,000 under \$25,000 \$20,000 under \$25,000 \$20,000 under \$25,000	all all all	adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit	percent amount percent	180,311,082 $1.2$
\$20,000 under \$25,000 \$20,000 under \$25,000	all all	$adjusted\_gross\_income\_less\_deficit$	percent amount	180,311,082
\$20,000 under \$25,000 \$20,000 under \$25,000 \$20,000 under \$25,000	all all all	adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit	percent amount percent	180,311,082 $1.2$
\$20,000 under \$25,000 \$20,000 under \$25,000 \$20,000 under \$25,000 \$20,000 under \$25,000	all all all all	adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit average_adjusted_gross_income_less_deficit	percent amount percent amount	180,311,082 1.2 22,440
\$20,000 under \$25,000 \$20,000 under \$25,000 \$20,000 under \$25,000 \$20,000 under \$25,000 \$20,000 under \$25,000	all all all all taxable	adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit average_adjusted_gross_income_less_deficit returns	percent amount percent amount	180,311,082 1.2 22,440 4,393,888
\$20,000 under \$25,000 \$20,000 under \$25,000 \$20,000 under \$25,000 \$20,000 under \$25,000 \$20,000 under \$25,000 \$20,000 under \$25,000	all all all all taxable taxable	adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit average_adjusted_gross_income_less_deficit returns returns	percent amount percent amount amount percent	180,311,082 1.2 22,440 4,393,888 4.0
\$20,000 under \$25,000 \$20,000 under \$25,000	all all all all taxable taxable taxable	adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit average_adjusted_gross_income_less_deficit returns returns adjusted_gross_income_less_deficit	percent amount percent amount amount percent amount	180,311,082 1.2 22,440 4,393,888 4.0 98,787,235
\$20,000 under \$25,000 \$20,000 under \$25,000	all all all all taxable taxable taxable taxable taxable	adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit average_adjusted_gross_income_less_deficit returns returns adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit taxable_income	percent amount percent amount percent amount percent count	180,311,082 1.2 22,440 4,393,888 4.0 98,787,235 0.7 4,392,825
\$20,000 under \$25,000 \$20,000 under \$25,000	all all all taxable taxable taxable taxable taxable taxable	adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit average_adjusted_gross_income_less_deficit returns returns adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit taxable_income taxable_income	percent amount percent amount percent amount percent amount percent count amount	180,311,082 1.2 22,440 4,393,888 4.0 98,787,235 0.7 4,392,825 39,939,199
\$20,000 under \$25,000 \$20,000 under \$25,000	all all all taxable taxable taxable taxable taxable taxable	adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit average_adjusted_gross_income_less_deficit  returns returns adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit taxable_income  taxable_income taxable_income	percent amount percent amount amount percent amount percent count amount percent	180,311,082 1.2 22,440 4,393,888 4.0 98,787,235 0.7 4,392,825 39,939,199 0.4
\$20,000 under \$25,000 \$20,000 under \$25,000	all all all taxable taxable taxable taxable taxable taxable	adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit average_adjusted_gross_income_less_deficit returns returns adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit taxable_income taxable_income income_tax_after_credits	percent amount percent amount percent amount percent amount percent count amount	180,311,082 1.2 22,440 4,393,888 4.0 98,787,235 0.7 4,392,825 39,939,199 0.4 4,393,888
\$20,000 under \$25,000 \$20,000 under \$25,000	all all all taxable taxable taxable taxable taxable taxable	adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit average_adjusted_gross_income_less_deficit  returns returns adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit taxable_income  taxable_income taxable_income	percent amount percent amount amount percent amount percent count amount percent	180,311,082 1.2 22,440 4,393,888 4.0 98,787,235 0.7 4,392,825 39,939,199 0.4
\$20,000 under \$25,000 \$20,000 under \$25,000	all all all taxable taxable taxable taxable taxable taxable taxable taxable taxable	adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit average_adjusted_gross_income_less_deficit returns returns adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit taxable_income taxable_income taxable_income income_tax_after_credits income_tax_after_credits income_tax_after_credits	percent amount percent amount percent amount percent count amount percent count amount percent count	180,311,082 1.2 22,440 4,393,888 4.0 98,787,235 0.7 4,392,825 39,939,199 0.4 4,393,888 3,804,019 0.2
\$20,000 under \$25,000 \$20,000 under \$25,000	all all all taxable	adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit average_adjusted_gross_income_less_deficit returns returns adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit taxable_income taxable_income taxable_income income_tax_after_credits income_tax_after_credits tincome_tax_after_credits total_income_tax total_income_tax	percent amount percent amount percent amount percent count amount percent count amount percent count amount amount percent amount amount percent amount	180,311,082 1.2 22,440 4,393,888 4.0 98,787,235 0.7 4,392,825 39,939,199 0.4 4,393,888 3,804,019 0.2 3,804,019
\$20,000 under \$25,000 \$20,000 under \$25,000	all all all all taxable	adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit average_adjusted_gross_income_less_deficit returns returns adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit taxable_income taxable_income taxable_income income_tax_after_credits income_tax_after_credits income_tax_after_credits total_income_tax total	percent amount percent amount percent amount percent count amount percent amount percent amount percent amount percent amount percent	180,311,082 1.2 22,440 4,393,888 4.0 98,787,235 0.7 4,392,825 39,939,199 0.4 4,393,888 3,804,019 0.2 3,804,019 0.2
\$20,000 under \$25,000 \$20,000 under \$25,000	all all all all taxable	adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit average_adjusted_gross_income_less_deficit  returns returns adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit taxable_income  taxable_income taxable_income income_tax_after_credits income_tax_after_credits income_tax_after_credits total_income_tax total total_taxable_income	percent amount percent amount percent amount percent count amount percent count amount percent count amount percent amount percent	180,311,082 1.2 22,440 4,393,888 4.0 98,787,235 0.7 4,392,825 39,939,199 0.4 4,393,888 3,804,019 0.2 3,804,019 0.2 9.5
\$20,000 under \$25,000 \$20,000 under \$25,000	all all all all taxable	adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit average_adjusted_gross_income_less_deficit  returns returns adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit taxable_income  taxable_income taxable_income income_tax_after_credits income_tax_after_credits income_tax_after_credits total_income_tax total total_taxable_income total_adjusted_gross_income_less_deficit	percent amount percent amount percent amount percent count amount percent count amount percent count amount percent count amount percent percent percent percent percent	180,311,082 1.2 22,440 4,393,888 4.0 98,787,235 0.7 4,392,825 39,939,199 0.4 4,393,888 3,804,019 0.2 3,804,019 0.2 9,5 3,9
\$20,000 under \$25,000 \$20,000 under \$25,000	all all all all taxable	adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit average_adjusted_gross_income_less_deficit  returns returns adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit taxable_income  taxable_income taxable_income income_tax_after_credits income_tax_after_credits income_tax_after_credits total_income_tax total total_taxable_income	percent amount percent amount percent amount percent count amount percent count amount percent count amount percent amount percent	180,311,082 1.2 22,440 4,393,888 4.0 98,787,235 0.7 4,392,825 39,939,199 0.4 4,393,888 3,804,019 0.2 3,804,019 0.2 9.5
\$20,000 under \$25,000 \$20,000 under \$25,000	all all all all taxable	adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit average_adjusted_gross_income_less_deficit  returns returns adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit taxable_income  taxable_income taxable_income income_tax_after_credits income_tax_after_credits income_tax_after_credits total_income_tax total total_taxable_income total_adjusted_gross_income_less_deficit average_total_income_tax returns	percent amount percent amount percent amount percent count amount percent count amount percent count amount percent count amount percent percent percent percent percent	180,311,082 1.2 22,440 4,393,888 4.0 98,787,235 0.7 4,392,825 39,939,199 0.4 4,393,888 3,804,019 0.2 3,804,019 0.2 9,5 3,9 866 8,005,289
\$20,000 under \$25,000 \$20,000 under \$25,000	all all all all taxable	adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit average_adjusted_gross_income_less_deficit  returns returns adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit taxable_income  taxable_income taxable_income income_tax_after_credits income_tax_after_credits income_tax_after_credits total_income_tax total total_taxable_income total_adjusted_gross_income_less_deficit average_total_income_tax	percent amount percent amount percent amount percent count amount percent count amount percent count amount percent amount percent amount percent amount count percent percent percent percent amount percent percent percent	180,311,082 1.2 22,440 4,393,888 4.0 98,787,235 0.7 4,392,825 39,939,199 0.4 4,393,888 3,804,019 0.2 3,804,019 0.2 9.5 3,9 866
\$20,000 under \$25,000 \$20,000 under \$25,000 \$25,000 under \$30,000 \$25,000 under \$30,000 \$25,000 under \$30,000 \$25,000 under \$30,000	all all all all all all taxable	adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit average_adjusted_gross_income_less_deficit  returns returns adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit taxable_income taxable_income income_tax_after_credits income_tax_after_credits income_tax_after_credits total_income_tax total total_taxable_income total_adjusted_gross_income_less_deficit average_total_income_tax returns returns returns adjusted_gross_income_less_deficit	percent amount percent amount percent amount percent count amount percent count amount percent count amount percent amount percent amount percent amount percent count count count count count	180,311,082 1.2 22,440 4,393,888 4.0 98,787,235 0.7 4,392,825 39,939,199 0.4 4,393,888 3,804,019 0.2 3,804,019 0.2 9,5 3,9 866 8,005,289
\$20,000 under \$25,000 \$20,000 under \$30,000 \$25,000 under \$30,000 \$25,000 under \$30,000 \$25,000 under \$30,000 \$25,000 under \$30,000	all all all all all taxable all all all	adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit average_adjusted_gross_income_less_deficit  returns returns adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit taxable_income taxable_income taxable_income income_tax_after_credits income_tax_after_credits income_tax_after_credits total_income_tax total total_taxable_income total_adjusted_gross_income_less_deficit average_total_income_tax returns returns adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit	percent amount percent amount percent amount percent count amount percent count amount percent amount percent amount percent amount percent percent amount percent percent amount percent amount percent amount percent amount percent percent amount percent	180,311,082 1.2 22,440 4,393,888 4.0 98,787,235 0.7 4,392,825 39,939,199 0.4 4,393,888 3,804,019 0.2 3,804,019 0.2 9.5 3.9 866 8,005,289 5.0 219,958,083 1.5
\$20,000 under \$25,000 \$20,000 under \$25,000 \$25,000 under \$30,000 \$25,000 under \$30,000 \$25,000 under \$30,000 \$25,000 under \$30,000	all all all all all all taxable	adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit average_adjusted_gross_income_less_deficit  returns returns adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit taxable_income taxable_income income_tax_after_credits income_tax_after_credits income_tax_after_credits total_income_tax total total_taxable_income total_adjusted_gross_income_less_deficit average_total_income_tax returns returns returns adjusted_gross_income_less_deficit	percent amount percent amount percent amount percent count amount percent amount percent amount percent amount percent amount percent amount percent percent percent amount percent amount percent amount	180,311,082 1.2 22,440 4,393,888 4.0 98,787,235 0.7 4,392,825 39,939,199 0.4 4,393,888 3,804,019 0.2 3,804,019 0.2 9.5 3.9 866 8,005,289 5.0 219,958,083
\$20,000 under \$25,000 \$20,000 under \$30,000 \$25,000 under \$30,000 \$25,000 under \$30,000 \$25,000 under \$30,000 \$25,000 under \$30,000	all all all all all taxable all all all	adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit average_adjusted_gross_income_less_deficit  returns returns adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit taxable_income taxable_income taxable_income income_tax_after_credits income_tax_after_credits income_tax_after_credits total_income_tax total total_taxable_income total_adjusted_gross_income_less_deficit average_total_income_tax returns returns adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit	percent amount percent amount percent amount percent count amount percent count amount percent amount percent amount percent amount percent percent amount percent percent amount percent amount percent amount percent amount percent percent amount percent	180,311,082 1.2 22,440 4,393,888 4.0 98,787,235 0.7 4,392,825 39,939,199 0.4 4,393,888 3,804,019 0.2 3,804,019 0.2 9.5 3.9 866 8,005,289 5.0 219,958,083 1.5
\$20,000 under \$25,000 \$20,000 under \$30,000 \$25,000 under \$30,000 \$25,000 under \$30,000 \$25,000 under \$30,000 \$25,000 under \$30,000 \$25,000 under \$30,000 \$25,000 under \$30,000	all all all all all all all all taxable	adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit average_adjusted_gross_income_less_deficit returns returns adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit taxable_income taxable_income taxable_income income_tax_after_credits income_tax_after_credits income_tax_after_credits total_income_tax total total_taxable_income total_adjusted_gross_income_less_deficit average_total_income_tax returns returns returns adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit average_adjusted_gross_income_less_deficit	percent amount percent amount percent amount percent count amount percent count amount percent amount percent amount percent amount percent amount percent percent amount percent amount percent amount percent amount	180,311,082 1.2 22,440 4,393,888 4.0 98,787,235 0.7 4,392,825 39,939,199 0.4 4,393,888 3,804,019 0.2 3,804,019 0.2 9.5 5.0 219,958,083 1.5 27,477
\$20,000 under \$25,000 \$20,000 under \$30,000 \$25,000 under \$30,000	all all all all all taxable all all all all all taxable	adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit average_adjusted_gross_income_less_deficit  returns returns adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit taxable_income taxable_income taxable_income income_tax_after_credits income_tax_after_credits income_tax_after_credits total_income_tax total total_taxable_income total_adjusted_gross_income_less_deficit average_total_income_tax returns returns adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit average_adjusted_gross_income_less_deficit returns	percent amount percent amount percent amount percent count amount percent count amount percent amount percent amount percent amount percent percent amount percent amount percent amount percent amount amount amount amount percent amount	180,311,082 1.2 22,440 4,393,888 4.0 98,787,235 0.7 4,392,825 39,939,199 0.4 4,393,888 3,804,019 0.2 3,804,019 0.2 9.5 3.9 866 8,005,289 5.0 219,958,083 1.5 27,477 4,801,988
\$20,000 under \$25,000 \$20,000 under \$30,000 \$25,000 under \$30,000	all all all all all taxable all all all tall tall tall tall taxable	adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit average_adjusted_gross_income_less_deficit returns returns adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit taxable_income taxable_income taxable_income income_tax_after_credits income_tax_after_credits income_tax_after_credits total_income_tax total total_taxable_income total_adjusted_gross_income_less_deficit average_total_income_tax returns returns returns adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit average_adjusted_gross_income_less_deficit returns returns returns returns returns	percent amount percent amount percent amount percent count amount percent count amount percent amount	180,311,082 1.2 22,440 4,393,888 4.0 98,787,235 0.7 4,392,825 39,939,199 0.4 4,393,888 3,804,019 0.2 3,804,019 0.2 9.5 3,9 866 8,005,289 5.0 219,958,083 1.5 27,477 4,801,988 4.3
\$20,000 under \$25,000 \$20,000 under \$30,000 \$25,000 under \$30,000	all all all all taxable	adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit average_adjusted_gross_income_less_deficit returns returns adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit taxable_income taxable_income taxable_income income_tax_after_credits income_tax_after_credits income_tax_after_credits total_income_tax total total_taxable_income total_adjusted_gross_income_less_deficit average_total_income_tax returns returns returns adjusted_gross_income_less_deficit average_adjusted_gross_income_less_deficit returns returns returns returns returns returns returns adjusted_gross_income_less_deficit average_adjusted_gross_income_less_deficit	percent amount percent amount percent amount percent count amount percent count amount percent amount percent amount percent amount percent amount percent amount percent amount count percent amount	180,311,082 1.2 22,440 4,393,888 4.0 98,787,235 0.7 4,392,825 39,939,199 0.4 4,393,888 3,804,019 0.2 3,804,019 0.2 9,5 3.9 866 8,005,289 5.0 219,958,083 1.5 27,477 4,801,988 4.3 132,247,818
\$20,000 under \$25,000 \$20,000 under \$30,000 \$25,000 under \$30,000	all all all all all taxable	adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit average_adjusted_gross_income_less_deficit returns returns adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit taxable_income taxable_income taxable_income income_tax_after_credits income_tax_after_credits income_tax_after_credits total_income_tax total total_taxable_income total_adjusted_gross_income_less_deficit average_total_income_tax returns returns returns adjusted_gross_income_less_deficit average_adjusted_gross_income_less_deficit returns returns adjusted_gross_income_less_deficit average_adjusted_gross_income_less_deficit average_adjusted_gross_income_less_deficit average_adjusted_gross_income_less_deficit returns returns adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit taxable_income	percent amount percent amount percent amount percent count amount percent count amount percent amount	180,311,082 1.2 22,440 4,393,888 4.0 98,787,235 0.7 4,392,825 39,939,199 0.4 4,393,888 3,804,019 0.2 3,804,019 0.2 9,5 3.9 866 8,005,289 5.0 219,958,083 1.5 27,477 4,801,988 4.3 132,247,818 0.9 4,801,879
\$20,000 under \$25,000 \$20,000 under \$30,000 \$25,000 under \$30,000	all	adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit average_adjusted_gross_income_less_deficit returns returns adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit taxable_income taxable_income taxable_income income_tax_after_credits income_tax_after_credits income_tax_after_credits total_income_tax total total_income_tax total total_daylusted_gross_income_less_deficit average_total_income_tax returns returns adjusted_gross_income_less_deficit average_adjusted_gross_income_less_deficit returns returns returns returns adjusted_gross_income_less_deficit average_adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit	percent amount percent amount percent amount percent count amount percent amount percent amount percent amount percent amount percent percent percent amount percent	180,311,082 1.2 22,440 4,393,888 4.0 98,787,235 0.7 4,392,825 39,939,199 0.4 4,393,888 3,804,019 0.2 3,804,019 0.2 3,804,019 0.2 3,804,019 0.2 4,439,888 3,905,289 5.0 219,958,083 1.5 27,477 4,801,988 4.3 132,247,818 0.9

\$25,000 under \$30,000	taxable	income_tax_after_credits	count	4,801,988
\$25,000 under \$30,000	taxable	income_tax_after_credits	amount	6,376,403
\$25,000 under \$30,000	taxable	income_tax_after_credits	percent	0.3
#0F 000 1 #00 000	. 11			0.050.400
\$25,000 under \$30,000 \$25,000 under \$30,000	taxable taxable	total_income_tax	amount	6,376,403 0.3
\$25,000 under \$30,000 \$25,000 under \$30,000	taxable	total total_taxable_income	percent percent	9.9
\$25,000 under \$30,000 \$25,000 under \$30,000	taxable	total_taxable_income total_adjusted_gross_income_less_deficit	percent	4.8
\$25,000 under \$30,000 \$25,000 under \$30,000	taxable	average_total_income_tax		1,328
\$25,000 under \$30,000	taxable	average_total_income_tax	amount	1,326
\$30,000 under \$40,000	all	returns	count	15,771,561
\$30,000 under \$40,000	all	returns	percent	9.8
\$30,000 under \$40,000	all	adjusted_gross_income_less_deficit	amount	550,490,150
\$30,000 under \$40,000	all	adjusted_gross_income_less_deficit	percent	3.7
\$30,000 under \$40,000	all	$average\_adjusted\_gross\_income\_less\_deficit$	amount	34,904
\$30,000 under \$40,000	411.			10.701.024
\$30,000 under \$40,000 \$30,000 under \$40,000	taxable taxable	returns	amount	10,791,934 9.8
\$30,000 under \$40,000	taxable	returns adjusted_gross_income_less_deficit	$_{ m amount}$	377,838,200
\$30,000 under \$40,000	taxable	adjusted_gross_income_less_deficit	percent	2.7
\$30,000 under \$40,000	taxable	taxable_income	count	10,791,890
\$50,000 under \$40,000	taxable	taxable_income	count	10,731,030
\$30,000 under \$40,000	taxable	taxable_income	amount	210,765,535
\$30,000 under \$40,000	taxable	taxable_income	percent	1.8
\$30,000 under \$40,000	taxable	$income\_tax\_after\_credits$	count	10,791,931
\$30,000 under \$40,000	taxable	income_tax_after_credits	amount	21,322,189
\$30,000 under \$40,000	taxable	income_tax_after_credits	percent	1.0
\$30,000 under \$40,000	taxable	total_income_tax	amount	21,322,304
\$30,000 under \$40,000 \$30,000 under \$40,000	taxable	total_income_tax total	percent	1.0
\$30,000 under \$40,000	taxable	total_taxable_income	percent	10.1
\$30,000 under \$40,000	taxable	total_adjusted_gross_income_less_deficit	percent	5.6
\$30,000 under \$40,000	taxable	average_total_income_tax	amount	1,976
\$50,000 ander \$10,000	canabic	avorago_total_income_tax	amount	1,0.0
\$40,000 under \$50,000	all	returns	count	13,255,063
\$40,000 under \$50,000	all	returns	percent	8.2
\$40,000 under \$50,000	all	adjusted_gross_income_less_deficit	amount	593,955,496
\$40,000 under \$50,000	all	adjusted_gross_income_less_deficit	percent	4.0
\$40,000 under \$50,000	all	average_adjusted_gross_income_less_deficit	amount	44,810
\$40,000 under \$50,000	taxable	returns	amount	10,680,343
\$40,000 under \$50,000	taxable	returns	percent	9.7
				479,522,952
\$40,000 under \$50,000	taxable	adjusted_gross_income_less_deficit	amount	410,022,002
\$40,000 under \$50,000 \$40,000 under \$50,000	taxable taxable	adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit	percent	3.4
\$40,000 under \$50,000 \$40,000 under \$50,000	taxable taxable	${\it adjusted\_gross\_income\_less\_deficit} \\ {\it taxable\_income}$	percent count	3.4 10,680,230
\$40,000 under \$50,000 \$40,000 under \$50,000 \$40,000 under \$50,000	taxable taxable taxable	adjusted_gross_income_less_deficit taxable_income taxable_income	percent count amount	3.4 10,680,230 304,326,431
\$40,000 under \$50,000 \$40,000 under \$50,000 \$40,000 under \$50,000 \$40,000 under \$50,000	taxable taxable taxable taxable	adjusted_gross_income_less_deficit taxable_income taxable_income taxable_income	percent count amount percent	3.4 10,680,230 304,326,431 2.7
\$40,000 under \$50,000 \$40,000 under \$50,000 \$40,000 under \$50,000 \$40,000 under \$50,000 \$40,000 under \$50,000	taxable taxable taxable taxable taxable	adjusted_gross_income_less_deficit taxable_income taxable_income taxable_income income_tax_after_credits	percent count amount percent count	3.4 10,680,230 304,326,431 2.7 10,680,343
\$40,000 under \$50,000 \$40,000 under \$50,000 \$40,000 under \$50,000 \$40,000 under \$50,000 \$40,000 under \$50,000 \$40,000 under \$50,000	taxable taxable taxable taxable	adjusted_gross_income_less_deficit taxable_income taxable_income taxable_income income_tax_after_credits income_tax_after_credits	percent count amount percent count amount	3.4 10,680,230 304,326,431 2.7 10,680,343 30,308,339
\$40,000 under \$50,000 \$40,000 under \$50,000 \$40,000 under \$50,000 \$40,000 under \$50,000 \$40,000 under \$50,000 \$40,000 under \$50,000 \$40,000 under \$50,000	taxable taxable taxable taxable taxable taxable taxable	adjusted_gross_income_less_deficit taxable_income taxable_income taxable_income income_tax_after_credits income_tax_after_credits income_tax_after_credits	percent count amount percent count amount percent	3.4 10,680,230 304,326,431 2.7 10,680,343 30,308,339 1.4
\$40,000 under \$50,000 \$40,000 under \$50,000	taxable taxable taxable taxable taxable taxable taxable	adjusted_gross_income_less_deficit taxable_income taxable_income taxable_income income_tax_after_credits income_tax_after_credits income_tax_after_credits total_income_tax	percent count amount percent count amount percent amount percent amount	3.4 10,680,230 304,326,431 2.7 10,680,343 30,308,339 1.4 30,309,343
\$40,000 under \$50,000 \$40,000 under \$50,000	taxable taxable taxable taxable taxable taxable taxable taxable	adjusted_gross_income_less_deficit taxable_income  taxable_income taxable_income income_tax_after_credits income_tax_after_credits income_tax_after_credits total_income_tax total	percent count amount percent count amount percent amount percent amount percent	3.4 10,680,230 304,326,431 2.7 10,680,343 30,308,339 1.4 30,309,343 1.4
\$40,000 under \$50,000 \$40,000 under \$50,000	taxable taxable taxable taxable taxable taxable taxable taxable	adjusted_gross_income_less_deficit taxable_income taxable_income taxable_income income_tax_after_credits income_tax_after_credits income_tax_after_credits total_income_tax total total_taxable_income	percent count amount percent count amount percent amount percent amount percent	3.4 10,680,230 304,326,431 2.7 10,680,343 30,308,339 1.4 30,309,343 1.4 10.0
\$40,000 under \$50,000 \$40,000 under \$50,000	taxable taxable taxable taxable taxable taxable taxable taxable taxable	adjusted_gross_income_less_deficit taxable_income taxable_income taxable_income income_tax_after_credits income_tax_after_credits income_tax_after_credits total_income_tax total total_taxable_income total_djusted_gross_income_less_deficit	percent count amount percent count amount percent amount percent percent percent	3.4 10,680,230 304,326,431 2.7 10,680,343 30,308,339 1.4 30,309,343 1.4 10.0 6.3
\$40,000 under \$50,000 \$40,000 under \$50,000	taxable taxable taxable taxable taxable taxable taxable taxable	adjusted_gross_income_less_deficit taxable_income taxable_income taxable_income income_tax_after_credits income_tax_after_credits income_tax_after_credits total_income_tax total total_taxable_income	percent count amount percent count amount percent amount percent amount percent	3.4 10,680,230 304,326,431 2.7 10,680,343 30,308,339 1.4 30,309,343 1.4 10.0
\$40,000 under \$50,000 \$40,000 under \$50,000	taxable taxable taxable taxable taxable taxable taxable taxable taxable	adjusted_gross_income_less_deficit taxable_income taxable_income taxable_income income_tax_after_credits income_tax_after_credits income_tax_after_credits total_income_tax total total_taxable_income total_djusted_gross_income_less_deficit	percent count amount percent count amount percent amount percent percent percent	3.4 10,680,230 304,326,431 2.7 10,680,343 30,308,339 1.4 30,309,343 1.4 10.0 6.3
\$40,000 under \$50,000 \$40,000 under \$50,000	taxable	adjusted_gross_income_less_deficit taxable_income  taxable_income taxable_income income_tax_after_credits income_tax_after_credits total_income_tax total total_taxable_income total_adjusted_gross_income_less_deficit average_total_income_tax	amount percent count amount percent amount percent amount percent percent amount percent amount	3.4 10,680,230 304,326,431 2.7 10,680,343 30,308,339 1.4 30,309,343 1.4 10.0 6.3 2,838
\$40,000 under \$50,000 \$40,000 under \$75,000 \$50,000 under \$75,000 \$50,000 under \$75,000 \$50,000 under \$75,000	taxable	adjusted_gross_income_less_deficit taxable_income  taxable_income taxable_income income_tax_after_credits income_tax_after_credits income_tax_after_credits  total_income_tax total total_taxable_income total_adjusted_gross_income_less_deficit average_total_income_tax returns returns adjusted_gross_income_less_deficit	percent count amount percent count amount percent amount percent percent amount count count	3.4 10,680,230 304,326,431 2.7 10,680,343 30,308,339 1.4 30,309,343 1.4 10.0 6.3 2,838 23,805,797 14.8 1,466,486,055
\$40,000 under \$50,000 \$40,000 under \$50,000 \$50,000 under \$75,000 \$50,000 under \$75,000 \$50,000 under \$75,000 \$50,000 under \$75,000 \$50,000 under \$75,000	taxable	adjusted_gross_income_less_deficit taxable_income  taxable_income taxable_income income_tax_after_credits income_tax_after_credits income_tax_after_credits  total_income_tax total  total_taxable_income total_adjusted_gross_income_less_deficit average_total_income_tax  returns returns adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit	percent count amount percent count amount percent amount percent percent amount count percent amount	3.4 10,680,230 304,326,431 2.7 10,680,343 30,308,339 1.4 30,309,343 1.4 10.0 6.3 2,838 23,805,797 14.8 1,466,486,055 9.9
\$40,000 under \$50,000 \$40,000 under \$75,000 \$50,000 under \$75,000 \$50,000 under \$75,000 \$50,000 under \$75,000	taxable	adjusted_gross_income_less_deficit taxable_income  taxable_income taxable_income income_tax_after_credits income_tax_after_credits income_tax_after_credits  total_income_tax total total_taxable_income total_adjusted_gross_income_less_deficit average_total_income_tax returns returns adjusted_gross_income_less_deficit	percent count amount percent count amount percent amount percent percent amount count percent amount	3.4 10,680,230 304,326,431 2.7 10,680,343 30,308,339 1.4 30,309,343 1.4 10.0 6.3 2,838 23,805,797 14.8 1,466,486,055
\$40,000 under \$50,000 \$40,000 under \$75,000 \$50,000 under \$75,000 \$50,000 under \$75,000 \$50,000 under \$75,000 \$50,000 under \$75,000 \$50,000 under \$75,000	taxable all all all all	adjusted_gross_income_less_deficit taxable_income  taxable_income taxable_income income_tax_after_credits income_tax_after_credits income_tax_after_credits  total_income_tax total total_taxable_income total_adjusted_gross_income_less_deficit average_total_income_tax  returns returns returns adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit average_adjusted_gross_income_less_deficit	amount percent count amount percent amount percent percent amount percent amount count percent amount count percent amount amount percent amount percent amount percent amount	3.4 10,680,230 304,326,431 2.7 10,680,343 30,308,339 1.4 30,309,343 1.4 10.0 6.3 2,838 23,805,797 14.8 1,466,486,055 9.9 61,602
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\$40,000 under \$50,000 \$40,000 under \$50,000 \$50,000 under \$75,000 \$50,000 under \$75,000	taxable all all all all taxable taxable	adjusted_gross_income_less_deficit taxable_income  taxable_income taxable_income income_tax_after_credits income_tax_after_credits income_tax_after_credits total_income_tax total total_taxable_income total_adjusted_gross_income_less_deficit average_total_income_tax  returns returns adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit average_adjusted_gross_income_less_deficit returns returns returns	amount percent count amount percent amount percent percent amount count percent amount count percent amount count percent amount percent amount percent amount percent amount percent	3.4 10,680,230 304,326,431 2.7 10,680,343 30,308,339 1.4 30,309,343 1.4 10.0 6.3 2,838 23,805,797 14.8 1,466,486,055 9.9 61,602 21,378,339 19.3
\$40,000 under \$50,000 \$40,000 under \$50,000 \$50,000 under \$75,000 \$50,000 under \$75,000	taxable all all all all all tall tall taxable taxable	adjusted_gross_income_less_deficit taxable_income  taxable_income taxable_income income_tax_after_credits income_tax_after_credits income_tax_after_credits total_income_tax total total_taxable_income total_adjusted_gross_income_less_deficit average_total_income_tax  returns returns returns adjusted_gross_income_less_deficit average_adjusted_gross_income_less_deficit returns returns returns returns returns returns returns returns returns adjusted_gross_income_less_deficit	amount percent count amount percent amount percent percent amount count percent amount	3.4 10,680,230 304,326,431 2.7 10,680,343 30,308,339 1.4 30,309,343 1.4 10.0 6.3 2,838 23,805,797 14.8 1,466,486,055 9.9 61,602 21,378,339 19.3 1,321,300,231
\$40,000 under \$50,000 \$40,000 under \$50,000 \$50,000 under \$75,000 \$50,000 under \$75,000	taxable all all all all taxable taxable	adjusted_gross_income_less_deficit taxable_income  taxable_income taxable_income income_tax_after_credits income_tax_after_credits income_tax_after_credits  total_income_tax total  total_taxable_income total_adjusted_gross_income_less_deficit average_total_income_tax  returns returns adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit returns returns returns returns adjusted_gross_income_less_deficit average_adjusted_gross_income_less_deficit returns returns adjusted_gross_income_less_deficit	amount percent count amount percent amount percent percent amount percent	3.4 10,680,230 304,326,431 2.7 10,680,343 30,308,339 1.4 30,309,343 1.4 10.0 6.3 2,838 23,805,797 14.8 1,466,486,055 9.9 61,602 21,378,339 19.3 1,321,300,231 9.4
\$40,000 under \$50,000 \$40,000 under \$50,000 \$50,000 under \$75,000 \$50,000 under \$75,000	taxable all all all all all tall tall taxable taxable	adjusted_gross_income_less_deficit taxable_income  taxable_income taxable_income income_tax_after_credits income_tax_after_credits income_tax_after_credits total_income_tax total total_taxable_income total_adjusted_gross_income_less_deficit average_total_income_tax  returns returns adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit average_adjusted_gross_income_less_deficit returns returns returns adjusted_gross_income_less_deficit average_adjusted_gross_income_less_deficit returns returns adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit taxable_income	amount percent count amount percent amount percent percent amount count percent amount	3.4 10,680,230 304,326,431 2.7 10,680,343 30,308,339 1.4 30,309,343 1.4 10.0 6.3 2,838 23,805,797 14.8 1,466,486,055 9.9 61,602 21,378,339 19.3 1,321,300,231 9.4 21,378,333
\$40,000 under \$50,000 \$40,000 under \$50,000 \$50,000 under \$75,000 \$50,000 under \$75,000	taxable	adjusted_gross_income_less_deficit taxable_income  taxable_income taxable_income income_tax_after_credits income_tax_after_credits income_tax_after_credits  total_income_tax total total_taxable_income total_adjusted_gross_income_less_deficit average_total_income_tax  returns returns returns adjusted_gross_income_less_deficit average_adjusted_gross_income_less_deficit returns	amount percent count amount percent amount percent percent amount percent	3.4 10,680,230 304,326,431 2.7 10,680,343 30,308,339 1.4 30,309,343 1.4 10.0 6.3 2,838 23,805,797 14.8 1,466,486,055 9.9 61,602 21,378,339 19.3 1,321,300,231 9.4 21,378,333 926,333,771
\$40,000 under \$50,000 \$40,000 under \$50,000 \$50,000 under \$75,000 \$50,000 under \$75,000	taxable all all all tall taxable taxable taxable taxable taxable taxable	adjusted_gross_income_less_deficit taxable_income  taxable_income taxable_income income_tax_after_credits income_tax_after_credits income_tax_after_credits  total_income_tax total  total_taxable_income total_adjusted_gross_income_less_deficit average_total_income_tax  returns returns returns adjusted_gross_income_less_deficit average_adjusted_gross_income_less_deficit returns returns returns returns returns eturns returns adjusted_gross_income_less_deficit tavable_gross_income_less_deficit taxable_income taxable_income taxable_income	amount percent amount amount percent amount percent amount percent amount percent amount percent count	3.4 10,680,230 304,326,431 2.7 10,680,343 30,308,339 1.4 30,309,343 1.4 10.0 6.3 2,838 23,805,797 14.8 1,466,486,055 9.9 61,602 21,378,339 19.3 1,321,300,231 9.4 21,378,333 926,333,771 8.1
\$40,000 under \$50,000 \$40,000 under \$50,000 \$50,000 under \$75,000 \$50,000 under \$75,000	taxable tall all all tall tall tall taxable taxable taxable taxable taxable taxable taxable taxable taxable	adjusted_gross_income_less_deficit taxable_income  taxable_income income_tax_after_credits income_tax_after_credits income_tax_after_credits  total_income_tax total  total_taxable_income total_adjusted_gross_income_less_deficit average_total_income_tax  returns returns adjusted_gross_income_less_deficit average_adjusted_gross_income_less_deficit returns returns returns adjusted_gross_income_less_deficit average_adjusted_gross_income_less_deficit returns returns returns returns adjusted_gross_income_less_deficit	amount percent count amount percent amount percent percent amount count percent amount count percent amount percent count	3.4 10,680,230 304,326,431 2.7 10,680,343 30,308,339 1.4 30,309,343 1.4 10.0 6.3 2,838 23,805,797 14.8 1,466,486,055 9.9 61,602 21,378,339 19.3 1,321,300,231 9.4 21,378,333 926,333,771 8.1 21,378,035
\$40,000 under \$50,000 \$40,000 under \$50,000 \$50,000 under \$75,000 \$50,000 under \$75,000	taxable	adjusted_gross_income_less_deficit taxable_income  taxable_income income_tax_after_credits income_tax_after_credits income_tax_after_credits income_tax_after_credits  total_income_tax total total_taxable_income total_adjusted_gross_income_less_deficit average_total_income_tax  returns returns adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit average_adjusted_gross_income_less_deficit returns returns returns adjusted_gross_income_less_deficit taverage_adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit taxable_income taxable_income taxable_income taxable_income income_tax_after_credits income_tax_after_credits	amount percent amount amount percent amount amount percent count amount percent count amount percent count amount percent count amount	3.4 10,680,230 304,326,431 2.7 10,680,343 30,308,339 1.4 10.0 6.3 2,838 23,805,797 14.8 1,466,486,055 9.9 61,602 21,378,339 19.3 1,321,300,231 9.4 21,378,333 926,333,771 8.1 21,378,035 100,103,566
\$40,000 under \$50,000 \$40,000 under \$50,000 \$50,000 under \$75,000 \$50,000 under \$75,000	taxable tall all all tall tall tall taxable taxable taxable taxable taxable taxable taxable taxable taxable	adjusted_gross_income_less_deficit taxable_income  taxable_income income_tax_after_credits income_tax_after_credits income_tax_after_credits  total_income_tax total  total_taxable_income total_adjusted_gross_income_less_deficit average_total_income_tax  returns returns adjusted_gross_income_less_deficit average_adjusted_gross_income_less_deficit returns returns returns adjusted_gross_income_less_deficit average_adjusted_gross_income_less_deficit returns returns returns returns adjusted_gross_income_less_deficit	amount percent count amount percent amount percent percent amount count percent amount count percent amount percent count	3.4 10,680,230 304,326,431 2.7 10,680,343 30,308,339 1.4 30,309,343 1.4 10.0 6.3 2,838 23,805,797 14.8 1,466,486,055 9.9 61,602 21,378,339 19.3 1,321,300,231 9.4 21,378,333 926,333,771 8.1 21,378,035
\$40,000 under \$50,000 \$40,000 under \$50,000 \$50,000 under \$75,000 \$50,000 under \$75,000	taxable	adjusted_gross_income_less_deficit taxable_income  taxable_income income_tax_after_credits income_tax_after_credits income_tax_after_credits income_tax_after_credits  total_income_tax total total_taxable_income total_adjusted_gross_income_less_deficit average_total_income_tax  returns returns adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit average_adjusted_gross_income_less_deficit returns returns returns adjusted_gross_income_less_deficit taverage_adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit taxable_income taxable_income taxable_income taxable_income income_tax_after_credits income_tax_after_credits	amount percent amount amount percent amount amount percent count amount percent count amount percent count amount percent count amount	3.4 10,680,230 304,326,431 2.7 10,680,343 30,308,339 1.4 10.0 6.3 2,838 23,805,797 14.8 1,466,486,055 9.9 61,602 21,378,339 19.3 1,321,300,231 9.4 21,378,333 926,333,771 8.1 21,378,035 100,103,566
\$40,000 under \$50,000 \$40,000 under \$50,000 \$50,000 under \$75,000 \$50,000 under \$75,000	taxable tall all all tall tall taxable	adjusted_gross_income_less_deficit taxable_income  taxable_income taxable_income income_tax_after_credits income_tax_after_credits income_tax_after_credits  total_income_tax total  total_taxable_income total_adjusted_gross_income_less_deficit average_total_income_tax  returns returns adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit average_adjusted_gross_income_less_deficit returns returns returns returns returns taverage_adjusted_gross_income_less_deficit average_adjusted_gross_income_less_deficit taverage_adjusted_gross_income_less_deficit tavable_income_less_deficit taxable_income taxable_income income_tax_after_credits income_tax_after_credits income_tax_after_credits income_tax_after_credits	amount percent count cou	3.4 10,680,230 304,326,431 2.7 10,680,343 30,308,339 1.4 30,309,343 1.4 10.0 6.3 2,838 23,805,797 14.8 1,466,486,055 9.9 61,602 21,378,339 19.3 1,321,300,231 9.4 21,378,333 926,333,771 8.1 21,378,035 100,103,566 4.8
\$40,000 under \$50,000 \$40,000 under \$75,000 \$50,000 under \$75,000	taxable	adjusted_gross_income_less_deficit taxable_income  taxable_income income_tax_after_credits income_tax_after_credits income_tax_after_credits  total_income_tax total  total_taxable_income total_adjusted_gross_income_less_deficit average_total_income_tax  returns returns adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit average_adjusted_gross_income_less_deficit returns returns returns returns returns adjusted_gross_income_less_deficit average_adjusted_gross_income_less_deficit taxable_gross_income_less_deficit adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit taxable_income taxable_income taxable_income taxable_income income_tax_after_credits income_tax_after_credits income_tax_after_credits total_income_tax total_income_tax	amount percent amount amount percent amount percent amount percent amount percent amount percent amount percent amount	3.4 10,680,230 304,326,431 2.7 10,680,343 30,308,339 1.4 10.0 6.3 2,838 23,805,797 14.8 1,466,486,055 9.9 61,602 21,378,339 19.3 1,321,300,231 9.4 21,378,333 926,333,771 8.1 21,378,035 100,103,566 4.8 100,103,599
\$40,000 under \$50,000 \$40,000 under \$75,000 \$50,000 under \$75,000	taxable	adjusted_gross_income_less_deficit taxable_income  taxable_income income_tax_after_credits income_tax_after_credits income_tax_after_credits total_income_tax total  total_taxable_income total_adjusted_gross_income_less_deficit average_total_income_less_deficit adjusted_gross_income_less_deficit average_adjusted_gross_income_less_deficit average_adjusted_gross_income_less_deficit returns returns returns returns returns adjusted_gross_income_less_deficit average_adjusted_gross_income_less_deficit returns returns taxable_income_less_deficit taxable_income taxable_income taxable_income income_tax_after_credits income_tax_after_credits income_tax_after_credits total_income_tax total total_taxable_income total_adjusted_gross_income_less_deficit	amount percent count amount percent count amount percent percent percent percent percent percent percent percent percent amount percent percent percent	3.4 10,680,230 304,326,431 2.7 10,680,343 30,308,339 1.4 30,309,343 1.4 10.0 6.3 2,838 23,805,797 14.8 1,466,486,055 9.9 61,602 21,378,339 19.3 1,321,300,231 9.4 21,378,333 100,103,566 4.8 100,103,599 4.7 10.8 7.6
\$40,000 under \$50,000 \$40,000 under \$75,000 \$50,000 under \$75,000	taxable	adjusted_gross_income_less_deficit taxable_income  taxable_income income_tax_after_credits income_tax_after_credits income_tax_after_credits  total_income_tax total  total_taxable_income total_adjusted_gross_income_less_deficit average_total_income_tax  returns returns returns adjusted_gross_income_less_deficit average_adjusted_gross_income_less_deficit returns returns returns returns  r	amount percent count amount percent count amount percent percent percent percent percent percent	3.4 10,680,230 304,326,431 2.7 10,680,343 30,308,339 1.4 30,309,343 1.4 10.0 6.3 2,838 23,805,797 14.8 1,466,486,055 9.9 61,602 21,378,339 19.3 1,321,300,231 9.4 21,378,333 926,333,771 8.1 21,378,035 100,103,566 4.8 100,103,599 4.7 10.8
\$40,000 under \$50,000 \$40,000 under \$75,000 \$50,000 under \$75,000	taxable	adjusted_gross_income_less_deficit taxable_income  taxable_income income_tax_after_credits income_tax_after_credits income_tax_after_credits total_income_tax total  total_taxable_income total_adjusted_gross_income_less_deficit average_total_income_less_deficit adjusted_gross_income_less_deficit average_adjusted_gross_income_less_deficit average_adjusted_gross_income_less_deficit returns returns returns returns adjusted_gross_income_less_deficit average_adjusted_gross_income_less_deficit returns returns eturns adjusted_gross_income_less_deficit taxable_income_less_deficit taxable_income taxable_income taxable_income taxable_income taxable_income_tax_after_credits income_tax_after_credits total_income_tax total total_taxable_income total_adjusted_gross_income_less_deficit average_total_income_tax	amount percent amount	3.4 10,680,230 304,326,431 2.7 10,680,343 30,308,339 1.4 30,309,343 1.4 10.0 6.3 2,838 23,805,797 14.8 1,466,486,055 9.9 61,602 21,378,339 19.3 1,321,300,231 9.4 21,378,333 926,333,771 8.1 21,378,035 100,103,566 4.8 100,103,599 4.7 10.8 7.6 4,682
\$40,000 under \$50,000 \$40,000 under \$75,000 \$50,000 under \$75,000	taxable	adjusted_gross_income_less_deficit taxable_income  taxable_income income_tax_after_credits income_tax_after_credits income_tax_after_credits total_income_tax total  total_taxable_income total_adjusted_gross_income_less_deficit average_total_income_less_deficit adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit average_adjusted_gross_income_less_deficit returns returns returns adjusted_gross_income_less_deficit average_adjusted_gross_income_less_deficit returns returns eturns adjusted_gross_income_less_deficit taxable_income_less_deficit taxable_income taxable_income taxable_income income_tax_after_credits income_tax_after_credits income_tax_after_credits total_income_tax total total_taxable_income total_adjusted_gross_income_less_deficit average_total_income_tax returns	amount percent amount count co	3.4 10,680,230 304,326,431 2.7 10,680,343 30,308,339 1.4 30,309,343 1.4 10.0 6.3 2,838 23,805,797 14.8 1,466,486,055 9.9 61,602 21,378,339 19.3 1,321,300,231 9.4 21,378,333 100,103,566 4.8 100,103,599 4.7 10.8 7.6 4,682 15,181,035
\$40,000 under \$50,000 \$40,000 under \$75,000 \$50,000 under \$75,000	taxable	adjusted_gross_income_less_deficit taxable_income  taxable_income income_tax_after_credits income_tax_after_credits income_tax_after_credits  total_income_tax total  total_taxable_income total_adjusted_gross_income_less_deficit average_total_income_tax  returns returns adjusted_gross_income_less_deficit average_adjusted_gross_income_less_deficit returns returns adjusted_gross_income_less_deficit average_adjusted_gross_income_less_deficit taxable_gross_income_less_deficit adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit taxable_income taxable_income taxable_income taxable_income income_tax_after_credits income_tax_after_credits income_tax_after_credits total_income_tax total total_taxable_income total_adjusted_gross_income_less_deficit average_total_income_tax returns returns	amount percent amount	3.4 10,680,230 304,326,431 2.7 10,680,343 30,308,339 1.4 10.0 6.3 2,838 23,805,797 14.8 1,466,486,055 9.9 61,602 21,378,339 19.3 1,321,300,231 9.4 21,378,333 100,103,566 4.8 100,103,599 4.7 10.8 7.6 4,682 15,181,035 9.4
\$40,000 under \$50,000 \$40,000 under \$75,000 \$50,000 under \$75,000	taxable	adjusted_gross_income_less_deficit taxable_income  taxable_income income_tax_after_credits income_tax_after_credits income_tax_after_credits total_income_tax total  total_taxable_income total_adjusted_gross_income_less_deficit average_total_income_less_deficit adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit average_adjusted_gross_income_less_deficit returns returns returns adjusted_gross_income_less_deficit average_adjusted_gross_income_less_deficit returns returns eturns adjusted_gross_income_less_deficit taxable_income_less_deficit taxable_income taxable_income taxable_income income_tax_after_credits income_tax_after_credits income_tax_after_credits total_income_tax total total_taxable_income total_adjusted_gross_income_less_deficit average_total_income_tax returns	amount percent percent amount percent percent amount percent per	3.4 10,680,230 304,326,431 2.7 10,680,343 30,308,339 1.4 30,309,343 1.4 10.0 6.3 2,838 23,805,797 14.8 1,466,486,055 9.9 61,602 21,378,339 19.3 1,321,300,231 9.4 21,378,333 100,103,566 4.8 100,103,599 4.7 10.8 7.6 4,682 15,181,035

75,000 under $100,000$	all	average_adjusted_gross_income_less_deficit	amount	86,662
\$75,000 under \$100,000	taxable	returns	amount	14,549,648
\$75,000 under \$100,000 \$75,000 under \$100,000	taxable	returns	percent	13.2
\$75,000 under \$100,000	taxable	adjusted_gross_income_less_deficit	amount	1,262,289,876
\$75,000 under \$100,000	taxable	adjusted_gross_income_less_deficit	percent	9.0
\$75,000 under \$100,000	taxable	taxable_income	count	14,549,641
\$75,000 under \$100,000	taxable	taxable_income	amount	946,047,610
\$75,000 under \$100,000 \$75,000 under \$100,000	taxable taxable	taxable_income income_tax_after_credits	percent count	8.3 14,549,341
\$75,000 under \$100,000 \$75,000 under \$100,000	taxable	income_tax_after_credits	amount	113,079,178
\$75,000 under \$100,000	taxable	income_tax_after_credits	percent	5.4
			•	
\$75,000 under \$100,000	taxable	total_income_tax	amount	113,079,420
\$75,000 under \$100,000	taxable	total	percent	5.3
\$75,000 under \$100,000 \$75,000 under \$100,000	taxable taxable	total_taxable_income	percent	12.0 9.0
\$75,000 under \$100,000 \$75,000 under \$100,000	taxable	total_adjusted_gross_income_less_deficit average_total_income_tax	$_{ m amount}$	7,772
\$15,000 under \$100,000	taxabic	average_total_income_tax	amount	1,112
\$100,000 under \$200,000	all	returns	count	25,887,136
\$100,000 under \$200,000	all	returns	percent	16.0
\$100,000 under \$200,000	all	adjusted_gross_income_less_deficit	amount	3,567,047,571
\$100,000 under \$200,000	all	adjusted_gross_income_less_deficit	percent	24.0
\$100,000 under \$200,000	all	average_adjusted_gross_income_less_deficit	amount	137,792
\$100,000 under \$200,000	taxable	returns	amount	25,547,389
\$100,000 under \$200,000	taxable	returns	percent	23.1
100,000 under $200,000$	taxable	$adjusted\_gross\_income\_less\_deficit$	amount	$3,\!524,\!738,\!541$
\$100,000 under \$200,000	taxable	adjusted_gross_income_less_deficit	percent	25.2
\$100,000 under \$200,000	taxable	taxable_income	count	25,547,351
\$100,000 under \$200,000	taxable	taxable_income	amount	2,858,175,142
\$100,000 under \$200,000	taxable	taxable_income	percent	25.1
\$100,000 under \$200,000	taxable	$income\_tax\_after\_credits$	count	25,543,182
\$100,000 under \$200,000	taxable	$income\_tax\_after\_credits$	amount	397,720,446
\$100,000 under \$200,000	taxable	income_tax_after_credits	percent	18.9
\$100,000 under \$200,000	taxable	total_income_tax	amount	397,758,377
\$100,000 under \$200,000	taxable	total	percent	18.6
\$100,000 under \$200,000	taxable	total_taxable_income	percent	13.9
\$100,000 under \$200,000	taxable	total_adjusted_gross_income_less_deficit	percent	11.3
\$100,000 under \$200,000	taxable	$average\_total\_income\_tax$	amount	15,569
\$200,000 under \$500,000	all	returns	count	10,017,626
\$200,000 under \$500,000	all	returns	percent	6.2
\$200,000 under \$500,000	all	adjusted_gross_income_less_deficit	amount	2,891,064,828
\$200,000 under \$500,000	all	adjusted_gross_income_less_deficit	percent	19.5
\$200,000 under \$500,000	all	$average\_adjusted\_gross\_income\_less\_deficit$	amount	288,598
\$200,000 under \$500,000	taxable	returns	amount	9,992,304
\$200,000 under \$500,000	taxable	returns	percent	9.0
\$200,000 under \$500,000	taxable	adjusted_gross_income_less_deficit	amount	2,884,421,405
\$200,000 under \$500,000	taxable	adjusted_gross_income_less_deficit	percent	20.6
\$200,000 under \$500,000	taxable	taxable_income	count	9,990,080
9200 000 1 9200 000	40.00 blo	4		9 541 971 997
\$200,000 under \$500,000 \$200,000 under \$500,000	taxable taxable	taxable_income taxable_income	amount percent	2,541,371,827 22.3
\$200,000 under \$500,000 \$200,000 under \$500,000	taxable	income_tax_after_credits	- T	9,975,881
\$200,000 under \$500,000 \$200,000 under \$500,000	taxable	income_tax_after_credits	amount	478,105,230
\$200,000 under \$500,000	taxable	income_tax_after_credits	percent	22.8
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\$200,000 under \$500,000	taxable	total_income_tax	amount	483,056,987
\$200,000 under \$500,000 \$200,000 under \$500,000	taxable taxable	total total_taxable_income	percent	22.6 19.0
\$200,000 under \$500,000 \$200,000 under \$500,000	taxable	total_taxable_income total_adjusted_gross_income_less_deficit	percent percent	16.7
\$200,000 under \$500,000	taxable	average total income tax	amount	48,343
		<u> </u>		
\$500,000 under \$1,000,000	all	returns	count	1,674,608
\$500,000 under \$1,000,000 \$500,000 under \$1,000,000	all	returns	percent	1.0 1,124,299,469
\$500,000 under \$1,000,000 \$500,000 under \$1,000,000	all all	adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit	amount percent	1,124,299,469 7.6
\$500,000 under \$1,000,000 \$500,000 under \$1,000,000	all	adjusted_gross_income_less_deficit average_adjusted_gross_income_less_deficit	amount	671,381
\$500,000 under \$1,000,000	taxable	returns	amount	1,672,148
\$500,000 under \$1,000,000	taxable	returns	percent	1.5
\$500,000 under \$1,000,000	taxable	adjusted_gross_income_less_deficit	amount	1,122,634,305
\$500,000 under \$1,000,000	taxable	adjusted_gross_income_less_deficit	percent	8.0
\$500,000 under \$1,000,000	taxable	taxable_income	count	1,671,381
\$500,000  under  \$1,000,000	taxable	taxable_income	amount	1,028,823,801
\$500,000 under \$1,000,000	taxable	taxable_income	percent	9.0
\$500,000 under \$1,000,000	taxable	income_tax_after_credits	count	1,667,357
\$500,000 under \$1,000,000	taxable	income_tax_after_credits	amount	254,284,854
\$500,000 under \$1,000,000	taxable	$income\_tax\_after\_credits$	percent	12.1

\$500,000 under \$1,000,000	taxable	total_income_tax	amount	260,282,198
\$500,000 under \$1,000,000	taxable	total	percent	12.2
\$500,000 under \$1,000,000	taxable	total_taxable_income	percent	25.3
\$500,000 under \$1,000,000	taxable	$total\_adjusted\_gross\_income\_less\_deficit$	percent	23.2
\$500,000 under \$1,000,000	taxable	average_total_income_tax	amount	155,657
\$1,000,000 under \$1,500,000	all	returns	count	360,882
\$1,000,000 under \$1,500,000	all	returns	percent	0.2
\$1,000,000 under \$1,500,000	all	adjusted_gross_income_less_deficit	amount	435,177,502
\$1,000,000 under \$1,500,000	all	adjusted_gross_income_less_deficit	percent	2.9
\$1,000,000 under \$1,500,000	all	average_adjusted_gross_income_less_deficit	amount	1,205,872
\$1,000,000 under \$1,500,000	taxable	returns	amount	360,444
\$1,000,000 under \$1,500,000 \$1,000,000 under \$1,500,000	taxable	returns	percent	0.3
\$1,000,000 under \$1,500,000	taxable	adjusted_gross_income_less_deficit	amount	434,649,011
\$1,000,000 under \$1,500,000	taxable	adjusted_gross_income_less_deficit	percent	3.1
\$1,000,000 under \$1,500,000	taxable	taxable_income	count	360,328
#1 000 000 1 #1 F00 000	. 11			000 500 004
\$1,000,000 under \$1,500,000	taxable	taxable_income	amount	398,506,804
\$1,000,000 under \$1,500,000	taxable	taxable_income	percent	3.5
\$1,000,000 under \$1,500,000 \$1,000,000 under \$1,500,000	taxable taxable	income_tax_after_credits income_tax_after_credits	$_{ m amount}$	359,534 110,819,453
\$1,000,000 under \$1,500,000 \$1,000,000 under \$1,500,000	taxable	income_tax_after_credits	percent	5.3
			percent	0.0
\$1,000,000 under \$1,500,000	taxable	total_income_tax	amount	114,003,393
\$1,000,000 under \$1,500,000	taxable	total	percent	5.3
\$1,000,000 under \$1,500,000	taxable	total_taxable_income	percent	28.6
\$1,000,000 under \$1,500,000	taxable	total_adjusted_gross_income_less_deficit	percent	26.2
\$1,000,000 under \$1,500,000	taxable	average_total_income_tax	amount	316,286
1,500,000 under $2,000,000$	all	returns	count	148,222
1,500,000 under $2,000,000$	all	returns	percent	0.1
\$1,500,000 under \$2,000,000	all	adjusted_gross_income_less_deficit	amount	$254,\!476,\!785$
\$1,500,000 under \$2,000,000	all	adjusted_gross_income_less_deficit	percent	1.7
\$1,500,000 under \$2,000,000	all	average_adjusted_gross_income_less_deficit	amount	1,716,862
\$1,500,000 under \$2,000,000	taxable	returns	amount	148,056
\$1,500,000 under \$2,000,000	taxable	returns	percent	0.1
1,500,000 under $2,000,000$	taxable	adjusted_gross_income_less_deficit	amount	254,190,622
1,500,000 under $2,000,000$	taxable	adjusted_gross_income_less_deficit	percent	1.8
\$1,500,000 under \$2,000,000	taxable	taxable_income	$\operatorname{count}$	147,957
\$1,500,000 under \$2,000,000	taxable	taxable_income	amount	232,336,257
\$1,500,000 under \$2,000,000	taxable	taxable_income	percent	2.0
\$1,500,000 under \$2,000,000	taxable	income_tax_after_credits	count	147,558
\$1,500,000 under \$2,000,000	taxable	income_tax_after_credits	amount	67,287,429
1,500,000 under $2,000,000$	taxable	$income\_tax\_after\_credits$	percent	3.2
\$1,500,000 under \$2,000,000	taxable	total_income_tax	amount	69,338,677
\$1,500,000 under \$2,000,000 \$1,500,000 under \$2,000,000	taxable	total_income_tax	percent	3.2
\$1,500,000 under \$2,000,000	taxable	total_taxable_income	percent	29.8
\$1,500,000 under \$2,000,000	taxable	total_adjusted_gross_income_less_deficit	percent	27.3
\$1,500,000 under \$2,000,000	taxable	average_total_income_tax	amount	468,327
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\$2,000,000 under \$5,000,000 \$2,000,000 under \$5,000,000	all all	returns returns	count percent	208,129 0.1
\$2,000,000 under \$5,000,000 \$2,000,000 under \$5,000,000	all	adjusted_gross_income_less_deficit	amount	621,044,404
\$2,000,000 under \$5,000,000	all	adjusted_gross_income_less_deficit	percent	4.2
\$2,000,000 under \$5,000,000	all	average_adjusted_gross_income_less_deficit	amount	2,983,940
\$2,000,000 under \$5,000,000	taxable	returns	amount	207,905
\$2,000,000 under \$5,000,000 \$2,000,000 under \$5,000,000	taxable taxable	returns adjusted_gross_income_less_deficit	percent amount	0.2 $620,386,059$
\$2,000,000 under \$5,000,000 \$2,000,000 under \$5,000,000	taxable	adjusted gross income less deficit	percent	4.4
\$2,000,000 under \$5,000,000 \$2,000,000 under \$5,000,000	taxable	taxable_income	count	207,783
				,
\$2,000,000 under \$5,000,000	taxable	taxable_income	amount	565,832,497
\$2,000,000 under \$5,000,000	taxable	taxable_income	percent	5.0
\$2,000,000 under \$5,000,000	taxable	income_tax_after_credits	count	207,401
\$2,000,000 under \$5,000,000	4 1 1 .			166,026,539
\$3 000 000 mmd \$5 000 000	taxable	income_tax_after_credits	amount	7.0
\$2,000,000 under \$5,000,000	taxable taxable	income_tax_after_credits income_tax_after_credits	percent	7.9
\$2,000,000 under \$5,000,000				7.9 171,825,620
\$2,000,000 under \$5,000,000 \$2,000,000 under \$5,000,000	taxable taxable taxable	income_tax_after_credits  total_income_tax total	percent amount percent	171,825,620 8.0
\$2,000,000 under \$5,000,000 \$2,000,000 under \$5,000,000 \$2,000,000 under \$5,000,000	taxable taxable taxable taxable	<pre>income_tax_after_credits  total_income_tax  total total_taxable_income</pre>	amount percent percent	171,825,620 8.0 30.4
\$2,000,000 under \$5,000,000 \$2,000,000 under \$5,000,000 \$2,000,000 under \$5,000,000 \$2,000,000 under \$5,000,000	taxable taxable taxable taxable taxable	income_tax_after_credits  total_income_tax  total  total_taxable_income  total_adjusted_gross_income_less_deficit	percent amount percent percent percent	171,825,620 8.0 30.4 27.7
\$2,000,000 under \$5,000,000 \$2,000,000 under \$5,000,000 \$2,000,000 under \$5,000,000	taxable taxable taxable taxable	<pre>income_tax_after_credits  total_income_tax  total total_taxable_income</pre>	amount percent percent	171,825,620 8.0 30.4
\$2,000,000 under \$5,000,000 \$2,000,000 under \$5,000,000 \$2,000,000 under \$5,000,000 \$2,000,000 under \$5,000,000	taxable taxable taxable taxable taxable	income_tax_after_credits  total_income_tax  total  total_taxable_income  total_adjusted_gross_income_less_deficit	percent amount percent percent percent	171,825,620 8.0 30.4 27.7
\$2,000,000 under \$5,000,000 \$2,000,000 under \$5,000,000 \$2,000,000 under \$5,000,000 \$2,000,000 under \$5,000,000 \$2,000,000 under \$5,000,000	taxable taxable taxable taxable taxable taxable	income_tax_after_credits  total_income_tax  total  total_taxable_income  total_adjusted_gross_income_less_deficit  average_total_income_tax	amount percent percent percent amount	171,825,620 8.0 30.4 27.7 826,462
\$2,000,000 under \$5,000,000 \$2,000,000 under \$5,000,000 \$2,000,000 under \$5,000,000 \$2,000,000 under \$5,000,000 \$2,000,000 under \$5,000,000 \$5,000,000 under \$10,000,000 \$5,000,000 under \$10,000,000 \$5,000,000 under \$10,000,000	taxable taxable taxable taxable taxable taxable	income_tax_after_credits  total_income_tax  total  total_taxable_income  total_adjusted_gross_income_less_deficit  average_total_income_tax  returns	amount percent percent percent amount count	171,825,620 8.0 30.4 27.7 826,462 52,968
\$2,000,000 under \$5,000,000 \$2,000,000 under \$5,000,000 \$2,000,000 under \$5,000,000 \$2,000,000 under \$5,000,000 \$2,000,000 under \$5,000,000 \$5,000,000 under \$10,000,000 \$5,000,000 under \$10,000,000 \$5,000,000 under \$10,000,000 \$5,000,000 under \$10,000,000	taxable taxable taxable taxable taxable taxable all all all	income_tax_after_credits  total_income_tax  total  total_taxable_income  total_adjusted_gross_income_less_deficit  average_total_income_tax  returns  returns  adjusted_gross_income_less_deficit  adjusted_gross_income_less_deficit  adjusted_gross_income_less_deficit	amount percent percent percent amount count percent amount percent amount percent	171,825,620 8.0 30.4 27.7 826,462 52,968 [2] 362,815,724 2.4
\$2,000,000 under \$5,000,000 \$2,000,000 under \$5,000,000 \$2,000,000 under \$5,000,000 \$2,000,000 under \$5,000,000 \$2,000,000 under \$5,000,000 \$5,000,000 under \$10,000,000 \$5,000,000 under \$10,000,000 \$5,000,000 under \$10,000,000	taxable taxable taxable taxable taxable taxable all all	income_tax_after_credits  total_income_tax  total  total_taxable_income  total_adjusted_gross_income_less_deficit  average_total_income_tax  returns  returns  adjusted_gross_income_less_deficit	amount percent percent percent amount count percent amount	171,825,620 8.0 30.4 27.7 826,462 52,968 [2] 362,815,724
\$2,000,000 under \$5,000,000 \$2,000,000 under \$5,000,000 \$2,000,000 under \$5,000,000 \$2,000,000 under \$5,000,000 \$2,000,000 under \$5,000,000 \$5,000,000 under \$10,000,000 \$5,000,000 under \$10,000,000 \$5,000,000 under \$10,000,000 \$5,000,000 under \$10,000,000	taxable taxable taxable taxable taxable taxable all all all	income_tax_after_credits  total_income_tax  total  total_taxable_income  total_adjusted_gross_income_less_deficit  average_total_income_tax  returns  returns  adjusted_gross_income_less_deficit  adjusted_gross_income_less_deficit  adjusted_gross_income_less_deficit	amount percent percent percent amount count percent amount percent amount percent	171,825,620 8.0 30.4 27.7 826,462 52,968 [2] 362,815,724 2.4
\$2,000,000 under \$5,000,000 \$2,000,000 under \$5,000,000 \$2,000,000 under \$5,000,000 \$2,000,000 under \$5,000,000 \$2,000,000 under \$5,000,000 \$5,000,000 under \$10,000,000 \$5,000,000 under \$10,000,000 \$5,000,000 under \$10,000,000 \$5,000,000 under \$10,000,000 \$5,000,000 under \$10,000,000 \$5,000,000 under \$10,000,000	taxable taxable taxable taxable taxable taxable all all all all	income_tax_after_credits  total_income_tax  total  total_taxable_income  total_adjusted_gross_income_less_deficit  average_total_income_tax  returns  returns  returns  adjusted_gross_income_less_deficit  adjusted_gross_income_less_deficit  average_adjusted_gross_income_less_deficit	amount percent percent percent amount count percent amount percent amount percent amount	171,825,620 8.0 30.4 27.7 826,462 52,968 [2] 362,815,724 2.4 6,849,715

\$5,000,000 under \$10,000,000	taxable	adjusted_gross_income_less_deficit	amount	362,436,914
\$5,000,000 under \$10,000,000	taxable	adjusted_gross_income_less_deficit	percent	2.6
\$5,000,000 under \$10,000,000	taxable	taxable_income	count	52,880
\$5,000,000 under \$10,000,000	taxable	taxable_income taxable_income income_tax_after_credits income_tax_after_credits income_tax_after_credits	amount	329,349,662
\$5,000,000 under \$10,000,000	taxable		percent	2.9
\$5,000,000 under \$10,000,000	taxable		count	52,747
\$5,000,000 under \$10,000,000	taxable		amount	96,475,701
\$5,000,000 under \$10,000,000	taxable		percent	4.6
\$5,000,000 under \$10,000,000	taxable	total_income_tax total total_taxable_income total_adjusted_gross_income_less_deficit average_total_income_tax	amount	100,262,125
\$5,000,000 under \$10,000,000	taxable		percent	4.7
\$5,000,000 under \$10,000,000	taxable		percent	30.4
\$5,000,000 under \$10,000,000	taxable		percent	27.7
\$5,000,000 under \$10,000,000	taxable		amount	1,894,849
\$10,000,000 or more \$10,000,000 or more \$10,000,000 or more \$10,000,000 or more \$10,000,000 or more	all all all all	returns returns adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit average_adjusted_gross_income_less_deficit	count percent amount percent amount	34,630 [2] 1,051,519,384 7.1 30,364,406
\$10,000,000 or more	taxable	returns returns adjusted_gross_income_less_deficit adjusted_gross_income_less_deficit taxable_income	amount	34,604
\$10,000,000 or more	taxable		percent	[2]
\$10,000,000 or more	taxable		amount	1,050,594,907
\$10,000,000 or more	taxable		percent	7.5
\$10,000,000 or more	taxable		count	34,571
\$10,000,000 or more	taxable	taxable_income taxable_income income_tax_after_credits income_tax_after_credits income_tax_after_credits	amount	937,403,948
\$10,000,000 or more	taxable		percent	8.2
\$10,000,000 or more	taxable		count	34,472
\$10,000,000 or more	taxable		amount	251,097,008
\$10,000,000 or more	taxable		percent	12.0
\$10,000,000 or more	taxable	total_income_tax	amount percent percent amount	266,286,618
\$10,000,000 or more	taxable	total		12.4
\$10,000,000 or more	taxable	total_taxable_income		28.4
\$10,000,000 or more	taxable	total_adjusted_gross_income_less_deficit		25.3
\$10,000,000 or more	taxable	average_total_income_tax		7,695,255

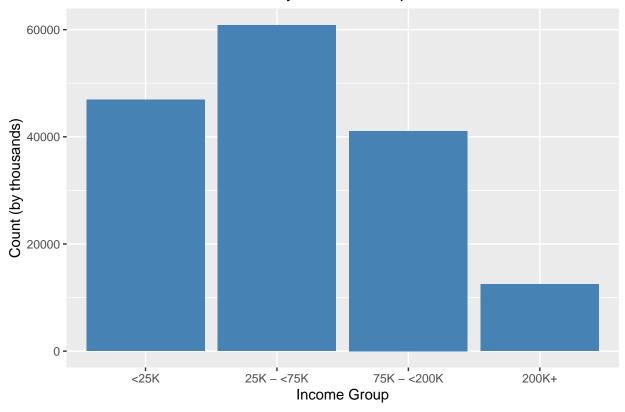
Shaping to long format for analysis

## Total tax returns filed

```
df_filter <- df_tidy %>%
filter(Return_Type == "all", Category == "returns", Metric == "count")
# filtering taxable returns and the percentage for ggplot
df filter <- df filter %>%
mutate(adjusted_gross_income = fct_collapse(adjusted_gross_income,
"<25K" = c("No adjusted gross income",
"$1 under $5,000",
"$5,000 under $10,000",
"$10,000 under $15,000",
"$15,000 under $20,000",
"$20,000 under $25,000"),
"25K - <75K" = c("$25,000 under $30,000",
"$30,000 under $40,000",
"$40,000 under $50,000",
"$50,000 under $75,000"),
"75K - <200K" = c("$75,000 under $100,000",
"$100,000 under $200,000"
),
"200K+" = c("$200,000 under $500,000",
"$500,000 under $1,000,000",
"$1,000,000 under $1,500,000",
```

```
"$1,500,000 under $2,000,000",
"$2,000,000 under $5,000,000",
"$5,000,000 under $10,000,000",
"$10,000,000 or more")
))
# combine the income levels to smaller groups
df_filter_sum <- df_filter %>%
mutate(Value = gsub(",", "", Value), # Remove commas
Value = as.numeric(Value)) # Convert to numeric
df_filter_sum <- df_filter_sum %>%
group_by(adjusted_gross_income) %>%
summarise(
sum_return_thous = sum(Value)/1e3,
df_filter_sum<- df_filter_sum %>%
mutate(adjusted_gross_income =
      factor(adjusted_gross_income, levels =
      c("<25K",
        "25K - <75K",
        "75K - <200K",
        "200K+")))
ggplot(df_filter_sum, aes(x = adjusted_gross_income, y = sum_return_thous)) +
geom_col(fill = "steelblue") +
labs(title = "Count of Tax Returns Filed by Income Group",
x = "Income Group",
y = "Count (by thousands)")
```

# Count of Tax Returns Filed by Income Group

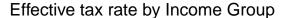


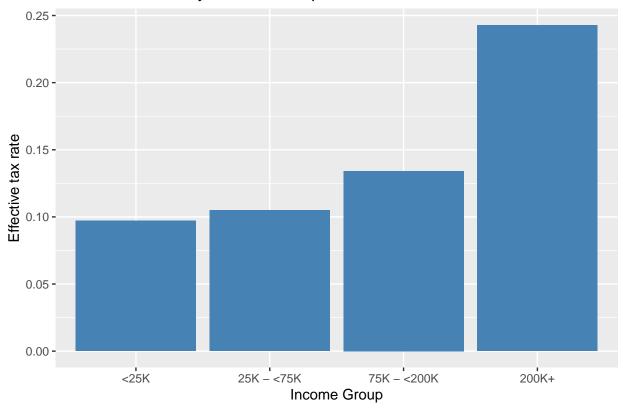
I filter the type of returns here to get the total returns filed by income group. In this dataset, there is a difference between all returns and taxable returns so in this case, we are looking at all returns. Since the source data had an overwhelming amount of income groups, I combined them to offer a more wider view of the analysis.

### Effective tax rate

```
df_filter_income <- df_tidy %>%
filter(Return_Type == "taxable",
Category %in% c("total_income_tax", "taxable_income"),
Metric %in% c("amount"))
df_filter_income <- df_filter_income %>%
mutate(adjusted_gross_income = fct_collapse(adjusted_gross_income,
"<25K" = c("No adjusted gross income",
"$1 under $5,000",
"$5,000 under $10,000",
"$10,000 under $15,000",
"$15,000 under $20,000",
"$20,000 under $25,000"),
"25K - <75K" = c("$25,000 under $30,000",
"$30,000 under $40,000",
"$40,000 under $50,000",
"$50,000 under $75,000"),
```

```
"75K - <200K" = c("$75,000 under $100,000",
"$100,000 under $200,000"
"200K+" = c("$200,000 under $500,000",
"$500,000 under $1,000,000",
"$1,000,000 under $1,500,000",
"$1,500,000 under $2,000,000",
"$2,000,000 under $5,000,000",
"$5,000,000 under $10,000,000",
"$10,000,000 or more")
))
# combine the income levels to smaller groups
df_filter_incometax <- df_filter_income %>%
mutate(Value = gsub(",", "", Value),
Value = as.numeric(Value))
df_avg_taxes <- df_filter_incometax %>%
group_by(adjusted_gross_income) %>%
summarise(avg_paid_taxes = sum(Value[Category == "total_income_tax"], na.rm = TRUE) /
sum(Value[Category == "taxable_income"], na.rm = TRUE))
df_avg_taxes<- df_avg_taxes %>%
mutate(adjusted_gross_income = factor(adjusted_gross_income,
                               levels = c("<25K",
                                          "25K - <75K",
                                          "75K - <200K",
                                          "200K+")))
ggplot(df_avg_taxes, aes(x = adjusted_gross_income, y = avg_paid_taxes)) +
geom_col(fill = "steelblue") +
labs(title = "Effective tax rate by Income Group",
x = "Income Group",
y = "Effective tax rate")
```





Same thing I did here with the total count of returns. The only difference here is that I also average to get the effective tax rate, which is the total income tax/total count of taxable income returns.

## Conclusion

After transforming the file to a structured table that we can use for analysis, I aggregated and grouped the income categories to generate insights. One key observation is that the majority of tax filers fall within the \$25K to under \$75K income bracket, as indicated by the total number of returns filed for the 2022 tax year. Additionally, I calculated the effective tax rate for each income group by dividing the total income tax paid by the total number of returns, allowing for a comparative view of tax burdens across different income levels. For future analysis, it would be valuable to compare tax years, particularly during periods of major tax reform, such the Tax Cuts and Jobs Act (2018–2025). Examining changes in tax rates, income distribution, and overall tax burdens over time could provide deeper insights into the impact of tax policy. Take Away from the Assignment- The janitor package, particularly the clean\_names() function, proved to be extremely useful. It ensures consistent formatting of column names, which is essential when applying pattern-based transformations or reshaping the data into a long format.