Reactive Sources

inputId = "state",

inputId = "sex".

choices = list(

selectInput(

choices = list(

label = "Select sex",

selectInput(

label = "Select state",

choices = state_choices

inputId = "work_status",

"WORK STATUS" = c(

inputId = "ruca_level",

"RUCA LEVEL" = c(

"Rural" = "Rural")))

"Urban" = "Urban",

label = "Select RUCA Level",

"Large Town" = "Large_Town",

"Small Town" = "Small_Town",

label = "Select work status",

"Full Time Employed" = "FT",
"Other Employed" = "OTHER")))

choices = list("SEX" = c("Female" = "F", "Male" = "M"))

Select state Alabama Select sex

Female

Select work status Full Time Employed

Select RUCA Level Urban

Reactive Conductors

median_data <- reactive(calculate_median(earnings_data(), design_factor()))

design_factor <- reactive(get_design_factor(input\$state))

earnings_data <- reactive(format_earnings(get_b20005_ruca_aggregate_earnings(input\$state, input\$sex, input\$work_status)))

available_ruca_levels <- reactive({ names(earnings_data())[!grepl("_MOE", names(earnings_data()))]

updateSelectInput(session, "ruca_level", choices = available_ruca_levels()

Reactive Endpoints

tableOutput(outputId = "earnings_data")

plotOutput(outputId = 'earnings_histogram')

outputId = "download_selected_b20005_data",

label = "Download Selected Tract-Level Data")

label = "Download All Tract-Level Data (~20MB)")

label = "Download Median Earnings Summary")

outputId = "download_all_b20005_data",

outputId = "download_median_summary",

outputId = "download_earnings_plot",

outputId = "download_ruca_earnings",

label = "Download RUCA Level Earnings")

downloadButton(

downloadButton(

downloadButton(

downloadButton(

downloadButton(

label = "Download Plot")

output\$median_data <- renderTable(expr = median_data(), rownames = TRUE)

output\$earnings_data <- renderTable(

output\$earnings_histogram <- renderPlot(

expr = make_plot(

data=earnings_data(),

filename = "b20005_data.zip",

zip(zipfile = fname, files=fs)

filename = "b20005_data.zip", content = function(fname) {

}, contentType = "application/zip")

},contentType = "application/zip")

write.csv(median_data(), file)

content = function(file) {

content = function(file) {

content = function(file) { write.csv(earnings_data(), file)

filename = fname,

content = function(fname) {

write.csv(...) write.csv(...)

write.csv(...)

write.csv(...)

ruca_level=input\$ruca_level,

plot_title=earnings_plot_title()))

output\$download_selected_b20005_data <- downloadHandler(

output\$download_all_b20005_data <- downloadHandler(

 $output \$ download_median_summary <- \ download Handler ($

output\$download_earnings_plot <- downloadHandler(

ggsave(data=earnings_data(), device="png")

output\$download_ruca_earnings <- downloadHandler(

filename = ruca_earnings_filename(),

zip(zipfile = fname, files=fs, flags = "-r9Xj")

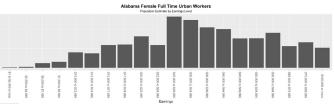
filename = median_summary_filename(),

expr = earnings_data(), rownames = TRUE)

tableOutput(outputId = 'median_data')

		Estimate	Standard_Error	Margin_of_Err
	Urban	34961.65	160.31	263.7
	Large_Town	30495.27	372.55	612.8
	Small_Town	28702.38	479.02	787.9
	Rural	27426.69	674.60	1109.7

	Urban	Urban_MOE	Large_Town	Large_Town_MOE	Small_Town	Small_Town_MOE	Rural	Rural_MOE
to \$2,499 or loss	468	390.69	149	161.69	28	116.91	75	106.51
2,500 to \$4,999	1061	416.33	257	172.32	162	133.61	66	108.90
5,000 to \$7,499	4732	567.89	546	190.03	634	222.55	351	138.45
7,500 to \$9,999	6120	659.46	1142	260.57	558	190.28	315	140.41
0,000 to \$12,499	15961	991.94	1837	311.10	1575	280.07	868	192.77
2,500 to \$14,999	15004	950.71	2769	374.28	2283	344.87	1271	243.99
5,000 to \$17,499	23531	1136.35	5037	551.18	3103	404.22	1745	264.88
7,500 to \$19,999	24143	1213.05	5368	588.04	3087	399.64	1760	280.16
20,000 to \$22,499	32543	1359.04	6398	607.52	3096	389.88	1873	271.86
2,500 to \$24,999	23514	1133.26	4243	456.87	2565	342.44	1476	245.77
25,000 to \$29,999	52939	1708.36	8351	639.95	4462	435.76	2319	302.70
30,000 to \$34,999	49517	1631.90	7713	642.68	4213	422.73	2144	284.62
35,000 to \$39,999	41830	1490.45	5468	532.67	3106	383.77	1456	235.19
10,000 to \$44,999	40026	1461.33	5967	623.68	2704	338.34	1513	250.63
15,000 to \$49,999	30397	1224.73	4012	427.49	1921	265.24	967	203.98
50,000 to \$54,999	30641	1252.53	4260	449.48	2313	304.45	993	180.94
55,000 to \$64,999	36174	1336.33	3695	443.46	2014	301.76	973	183.47
5,000 to \$74,999	22363	1069.10	2151	342.35	1074	227.17	654	177.55
5,000 to \$99,999	26396	1143.51	2747	396.44	1072	222.22	695	175.70
OD ODD or more	20759	981 42	1612	310.00	820	180 53	337	126.01



♣ Download Median Earnings Summary

Download Plot

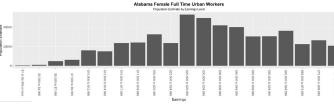
♣ Download RUCA Level Earnings

Median Earnings Estimate (USD)

	Estimate	Standard_Error	Margin_of_Error
Urban	34961.65	160.31	263.71
Large_Town	30495.27	372.55	612.84
Small_Town	28702.38	479.02	787.99
Rural	27426.69	674.60	1109.71

Population Estimates for Earnings by RUCA Level

	Urban	Urban_MOE	Large_Town	Large_Town_MOE	Small_Town	Small_Town_MOE	Rural	Rural_MOE
to \$2,499 or loss	468	390.69	149	161.69	28	116.91	75	106.51
500 to \$4,999	1061	416.33	257	172.32	162	133.61	66	108.90
000 to \$7,499	4732	567.89	546	190.03	634	222.55	351	138.45
500 to \$9,999	6120	659.46	1142	260.57	558	190.28	315	140.41
,000 to \$12,499	15961	991.94	1837	311.10	1575	280.07	868	192.77
,500 to \$14,999	15004	950.71	2769	374.28	2283	344.87	1271	243.99
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,500 to \$19,999	24143	1213.05	5368	588.04	3087	399.64	1760	280.16
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,000 to \$99,999	26396	1143.51	2747	396.44	1072	222.22	695	175.70
0,000 or more	20759	981.42	1612	310.00	820	180.53	337	126.01



♣ Download Selected Tract-Level Data









Query Functions

get_b20005_ruca_aggregate_earnings(state, sex, work_status){
 Get Variable Names Derive RUCA Level Estimates and MOE Add Descriptive Labels return Aggregated Estimates and MOEs data frames

format_earnings(rs) { Extract data.frame Objects from List Reshape data.frame Objects Add Descriptive Labels return Formatted data.frame

get_design_factor(state){ Query the Database Convert to Numeric return Design Factor

calculate_median(data, design_factor) { Create Frequency Distribution Calculate Weighted Total Approximate Standard Error Calculate Median Esimate Bounds Reshape the Data return Estimate, SE and MOE

get_b20005_tract_earnings(state, sex, work_status, get_all){ Get Variable Names Query the Database return Earnings and MOE data.frame

get_b20005_labels(){ Query the Database for Earnings Labels return Labels

get_all_labels(){
 Query the Database for all Labels return Labels

Database Tables

COUNTYFIPS TEXT STATE TEXT COUNTY TRACTFIPS TEXT PRIMARYRUCA INT SECONDARYRUCA DOUBLE TRACTPOPULATION INT DOUBLE LANDAREA POPULATIONDENSITY DOUBLE DESCRIPTION TEXT



TEXT

codes	
CATEGORY	TEXT
CODE	TEXT
DESCRIPTION	TEXT

name

label

design_factors	
YEAR	TEXT
PERIOD	TEXT
STATE	TEXT
ST	TEXT
CHARTYP	TEXT
CHARACTERISTIC	TEXT
DESIGN_FACTOR	DOUBLE