

# Updated Review of UC Percent Variable

9.21.23

## Quick Descriptives for uc\_percent (original metric)

```
summary(Z_and_Final_Variables_10.28.22$uc_percent)
```

Min.	1st Qu.	Median	Mean	3rd Qu.	Max.	NA's
1.061	3.854	5.350	6.884	7.985	54.000	157

## Statewide Averages for uc\_percent

### Highest Ten

```
Z_and_Final_Variables_10.28.22 %>%  
  group_by(State.x) %>%  
  summarize(state_level_ucp = mean(uc_percent, na.rm = TRUE)) %>%  
  arrange(desc(state_level_ucp)) %>%  
  head(10)
```

```
# A tibble: 10 x 2  
  State.x state_level_ucp  
  <chr>      <dbl>  
1 il          37.6  
2 tx          13.3  
3 ak          11.6  
4 nd          11.3  
5 ok          10.2  
6 wy           9.70
```

7	nv	9.30
8	sd	9.04
9	mt	8.94
10	ut	8.79

## Statewide Averages for uc\_percent

### Lowest Ten

```
Z_and_Final_Variables_10.28.22 %>%
  group_by(State.x) %>%
  summarize(state_level_ucp = mean(uc_percent, na.rm = TRUE)) %>%
  arrange(desc(state_level_ucp)) %>%
  tail(10)
```

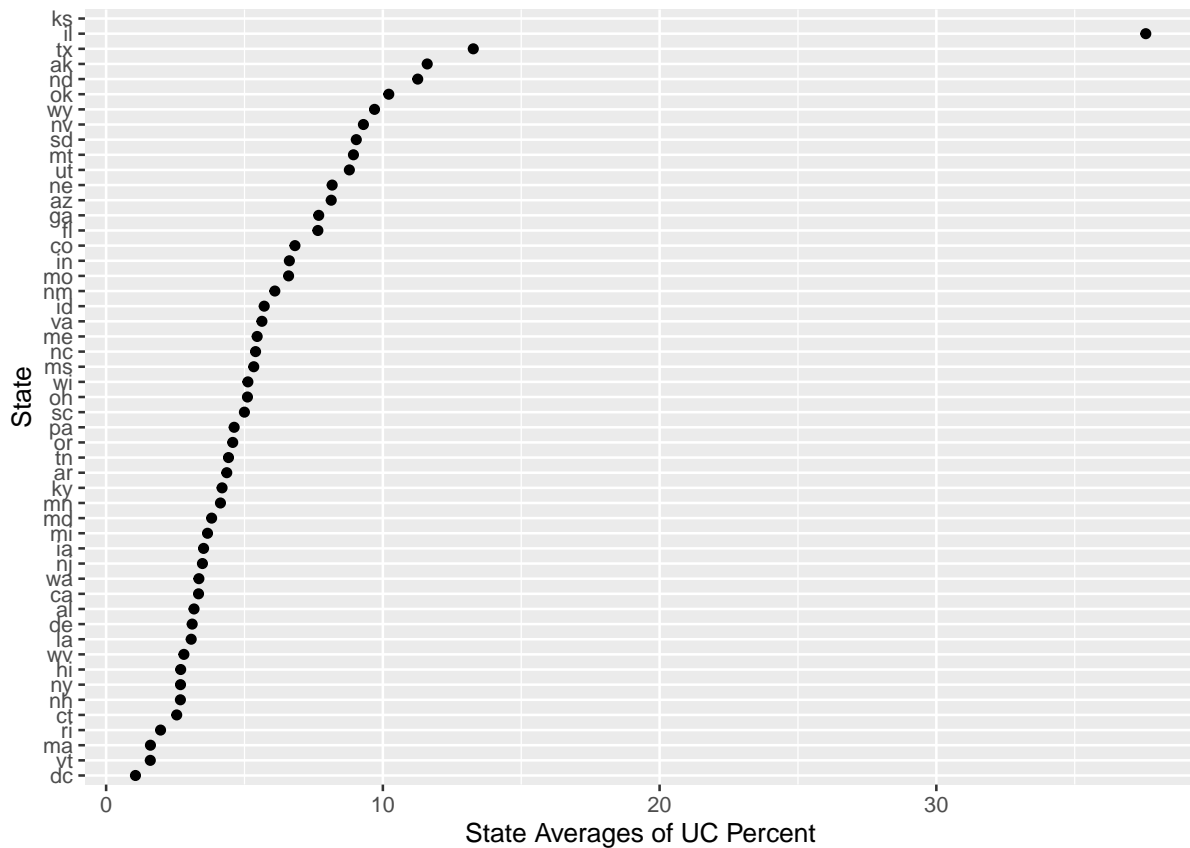
```
# A tibble: 10 x 2
  State.x state_level_ucp
  <chr>      <dbl>
1 wv         2.81
2 hi         2.69
3 ny         2.69
4 nh         2.68
5 ct         2.55
6 ri         1.97
7 ma         1.60
8 vt         1.60
9 dc         1.06
10 ks         NaN
```

## Plot of Statwide Averages for uc\_percent

### No data for Kansas

```
ggplot(Z_and_Final_Variables_9.20.23, mapping = aes(x = reorder(State.x,
  state_level_ucp), y = state_level_ucp)) + geom_point() +
  labs(x = "State", y = "State Averages of UC Percent") + coord_flip()
```

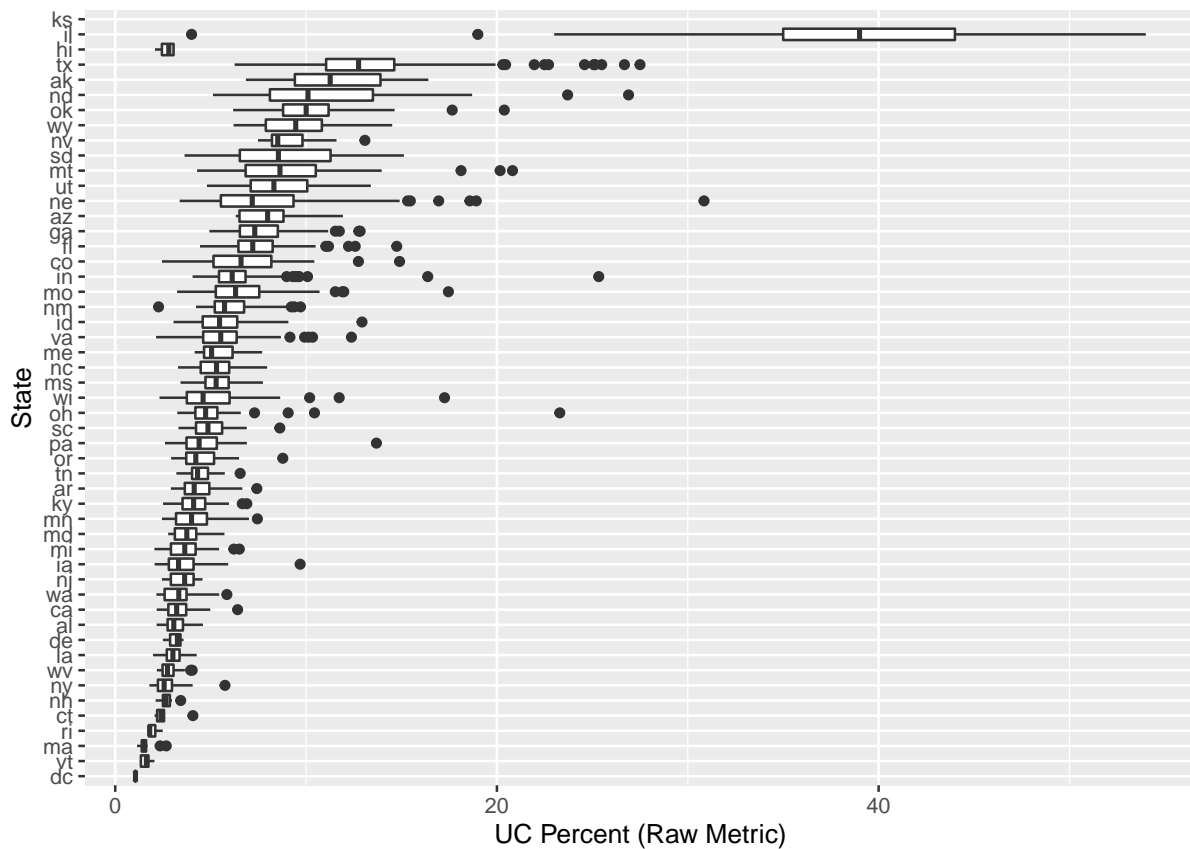
Warning: Removed 1 rows containing missing values (geom\_point).



## Boxplot for county-level uc\_percent

```
Z_and_Final_Variables_10.28.22 %>%  
  ggplot(mapping = aes(x = reorder(State.x, uc_percent), y = uc_percent)) +  
  geom_boxplot() + labs(x = "State", y = "UC Percent (Raw Metric)") +  
  coord_flip()
```

Warning: Removed 157 rows containing non-finite values (stat\_boxplot).



```
Just_IL <- Z_and_Final_Variables_10.28.22 %>%
  filter(State.x == "il") %>%
  select(uc_percent)
```

**Here are the values for the Illinois uc\_percent (with the missing NAs excluded)**

```
na.omit(Just_IL)
```

	uc_percent
1	35
4	36
6	37

8	38
9	4
10	37
14	25
15	23
16	41
19	38
21	35
22	44
28	19
29	36
32	32
37	46
38	25
39	30
41	38
43	50
45	37
46	35
47	40
48	45
49	40
50	40
52	32
53	44
56	43
57	44
58	33
59	44
60	45
61	39
69	41
71	45
72	46
78	40
81	47
82	43
83	25
84	44
89	43
90	54
91	45
92	23

94	27
98	39
99	37
100	45
101	42