Statistics/Data Analysis

```
      name:  <unnamed>
       log:  F:\fiscal research\mayor\PSRM data\PSRM_descstat3_log.smcl
  log type:  smcl
 opened on:  19 Dec 2023, 09:59:24

1 .
2 . ** Log file for Analysis: Table B.2 **
3 .
4 .
5 .
6 . ** Table B.2
7 .
8 . gen panel=1

9 . bysort geo_fips: egen panel_count=total(panel)

10. bysort state_fips: egen state_city_count=total(panel)

11. bysort state_fips: egen state_mayor_pres_count=total(panel) if mayor_pres_party==1
  (4783 missing values generated)

12. bysort state_fips: egen state_sec_mayor_pres_count=total(panel) if strong_mayor_pres
  > _party==1
  (7132 missing values generated)

13. bysort state_fips: egen state_mayor_pres_gov_count=total(panel) if mayor_pres_gover_
  > party==1
  (6603 missing values generated)

14. bysort state_fips: egen state_sec_may_pres_gov_cnt=total(panel) if str_mayor_pres_go
  > ver_party==1
  (7791 missing values generated)

15.
16.
17. foreach x in state_city_count state_mayor_pres_count state_sec_mayor_pres_count stat
  > e_mayor_pres_gov_count state_sec_may_pres_gov_cnt{
    2.          replace `x' = 0 if missing(`x')
    3. }
  (0 real changes made)
  (4,783 real changes made)
  (7,132 real changes made)
  (6,603 real changes made)
  (7,791 real changes made)

18.
19.
20. foreach x in state_city_count state_mayor_pres_count state_sec_mayor_pres_count stat
  > e_mayor_pres_gov_count state_sec_may_pres_gov_cnt{
    2.          egen `x'_max = max(`x'), by(state_fips)
    3. }

21.
22. foreach x in state_city_count_max state_mayor_pres_count_max state_sec_mayor_pres_co
  > unt_max state_mayor_pres_gov_count_max state_sec_may_pres_gov_cnt_max{
    2.          replace `x' = 0 if missing(`x')
    3. }
  (0 real changes made)
  (0 real changes made)
  (0 real changes made)
  (0 real changes made)
  (0 real changes made)
```

```
23.
24. drop state_city_count state_mayor_pres_count state_sec_mayor_pres_count state_mayor_
  > pres_gov_count state_sec_may_pres_gov_cnt

25.
26. rename (*_max) (*)

27.
28.
29.
30. tab primary_place_of_performance_sta mayor_pres_party, freq
```

primary_place_of_perf ormance_state_name	mayor_pres_party 0	1	Total
ALABAMA	73	55	128
ALASKA	14	2	16
ARIZONA	105	119	224
ARKANSAS	34	32	66
CALIFORNIA	842	536	1,378
COLORADO	100	87	187
CONNECTICUT	90	86	176
DELAWARE	8	8	16
DISTRICT OF COLUMBIA	8	8	16
FLORIDA	348	267	615
GEORGIA	75	70	145
IDAHO	21	23	44
ILLINOIS	256	202	458
INDIANA	120	120	240
IOWA	76	82	158
KANSAS	57	47	104
KENTUCKY	34	30	64
LOUISIANA	44	54	98
MAINE	4	7	11
MARYLAND	34	28	62
MASSACHUSETTS	145	127	272
MICHIGAN	183	159	342
MINNESOTA	187	95	282
MISSISSIPPI	16	12	28
MISSOURI	83	62	145
MONTANA	29	19	48
NEBRASKA	34	30	64
NEVADA	43	53	96
NEW HAMPSHIRE	23	9	32
NEW JERSEY	109	96	205
NEW MEXICO	34	27	61
NEW YORK	96	112	208
NORTH CAROLINA	158	102	260
NORTH DAKOTA	21	11	32
OHIO	117	111	228
OKLAHOMA	56	38	94
OREGON	84	67	151
PENNSYLVANIA	72	72	144
RHODE ISLAND	36	28	64
SOUTH CAROLINA	33	31	64
SOUTH DAKOTA	10	21	31
TENNESSEE	80	70	150
TEXAS	401	334	735
UTAH	99	57	156
VIRGINIA	80	69	149
WASHINGTON	126	98	224
WISCONSIN	77	56	133
WYOMING	8	8	16
Total	4,783	3,837	8,620

```
31.
32.
33. tabstat mayor_pres_party, by(primary_place_of_performance_sta) stat(n) // column 3

  Summary for variables: mayor_pres_party
       by categories of: primary_place_of_performance_sta (primary_place_of_performance_
  > state_name)
```

primary_place_of_performance_sta	N
ALABAMA	**128**
ALASKA	**16**
ARIZONA	**224**
ARKANSAS	**66**
CALIFORNIA	**1378**
COLORADO	**187**
CONNECTICUT	**176**
DELAWARE	**16**
DISTRICT OF COLUMBIA	**16**
FLORIDA	**615**
GEORGIA	**145**
IDAHO	**44**
ILLINOIS	**458**
INDIANA	**240**
IOWA	**158**
KANSAS	**104**
KENTUCKY	**64**
LOUISIANA	**98**
MAINE	**11**
MARYLAND	**62**
MASSACHUSETTS	**272**
MICHIGAN	**342**
MINNESOTA	**282**
MISSISSIPPI	**28**
MISSOURI	**145**
MONTANA	**48**
NEBRASKA	**64**
NEVADA	**96**
NEW HAMPSHIRE	**32**
NEW JERSEY	**205**
NEW MEXICO	**61**
NEW YORK	**208**
NORTH CAROLINA	**260**
NORTH DAKOTA	**32**
OHIO	**228**
OKLAHOMA	**94**
OREGON	**151**
PENNSYLVANIA	**144**
RHODE ISLAND	**64**
SOUTH CAROLINA	**64**
SOUTH DAKOTA	**31**
TENNESSEE	**150**
TEXAS	**735**
UTAH	**156**
VIRGINIA	**149**
WASHINGTON	**224**
WISCONSIN	**133**
WYOMING	**16**
Total	**8620**

```
34.
35. tabstat mayor_pres_party if mayor_pres_party==1, by(primary_place_of_performance_sta
  > ) stat(n) // column 4

  Summary for variables: mayor_pres_party
       by categories of: primary_place_of_performance_sta (primary_place_of_performance_
  > state_name)
```

primary_place_of_performance_sta	N
ALABAMA	**55**
ALASKA	**2**
ARIZONA	**119**
ARKANSAS	**32**
CALIFORNIA	**536**
COLORADO	**87**
CONNECTICUT	**86**
DELAWARE	**8**
DISTRICT OF COLUMBIA	**8**
FLORIDA	**267**
GEORGIA	**70**
IDAHO	**23**
ILLINOIS	**202**
INDIANA	**120**
IOWA	**82**
KANSAS	**47**
KENTUCKY	**30**
LOUISIANA	**54**
MAINE	**7**
MARYLAND	**28**
MASSACHUSETTS	**127**
MICHIGAN	**159**
MINNESOTA	**95**
MISSISSIPPI	**12**
MISSOURI	**62**
MONTANA	**19**
NEBRASKA	**30**
NEVADA	**53**
NEW HAMPSHIRE	**9**
NEW JERSEY	**96**
NEW MEXICO	**27**
NEW YORK	**112**
NORTH CAROLINA	**102**
NORTH DAKOTA	**11**
OHIO	**111**
OKLAHOMA	**38**
OREGON	**67**
PENNSYLVANIA	**72**
RHODE ISLAND	**28**
SOUTH CAROLINA	**31**
SOUTH DAKOTA	**21**
TENNESSEE	**70**
TEXAS	**334**
UTAH	**57**
VIRGINIA	**69**
WASHINGTON	**98**
WISCONSIN	**56**
WYOMING	**8**
Total	**3837**

```
36.
37. tabstat mayor_pres_party if strong_mayor_pres_party==1, by(primary_place_of_performa
  > nce_sta) stat(n) // column 5

  Summary for variables: mayor_pres_party
       by categories of: primary_place_of_performance_sta (primary_place_of_performance_
  > state_name)
```

primary_place_of_performance_sta	N
ALABAMA	**18**
ARIZONA	**34**
ARKANSAS	**14**
CALIFORNIA	**223**
COLORADO	**33**
CONNECTICUT	**24**
DISTRICT OF COLUMBIA	**6**
FLORIDA	**119**
GEORGIA	**21**
IDAHO	**8**
ILLINOIS	**86**
INDIANA	**6**
IOWA	**28**
KANSAS	**20**
KENTUCKY	**14**
LOUISIANA	**22**
MAINE	**6**
MARYLAND	**8**
MASSACHUSETTS	**82**
MICHIGAN	**57**
MINNESOTA	**32**
MISSISSIPPI	**3**
MISSOURI	**35**
MONTANA	**11**
NEBRASKA	**8**
NEVADA	**11**
NEW HAMPSHIRE	**1**
NEW JERSEY	**48**
NEW MEXICO	**2**
NEW YORK	**31**
NORTH CAROLINA	**28**
OHIO	**39**
OKLAHOMA	**14**
OREGON	**16**
PENNSYLVANIA	**13**
RHODE ISLAND	**8**
SOUTH CAROLINA	**1**
SOUTH DAKOTA	**6**
TENNESSEE	**38**
TEXAS	**176**
UTAH	**32**
VIRGINIA	**24**
WASHINGTON	**48**
WISCONSIN	**26**
WYOMING	**8**
Total	**1488**

```
38.
```

```
39. tabstat mayor_pres_party if mayor_pres_gover_party==1, by(primary_place_of_performan
  > ce_sta) stat(n) // column 6

  Summary for variables: mayor_pres_party
       by categories of: primary_place_of_performance_sta (primary_place_of_performance_
  > state_name)
```

primary_place_of_performance_sta	N
ALABAMA	**34**
ARIZONA	**35**
ARKANSAS	**24**
CALIFORNIA	**330**
COLORADO	**48**
CONNECTICUT	**61**
DELAWARE	**8**
FLORIDA	**106**
GEORGIA	**29**
IDAHO	**15**
ILLINOIS	**102**
INDIANA	**59**
IOWA	**25**
KANSAS	**10**
KENTUCKY	**24**
LOUISIANA	**6**
MAINE	**1**
MARYLAND	**20**
MASSACHUSETTS	**92**
MICHIGAN	**44**
MINNESOTA	**68**
MISSISSIPPI	**4**
MISSOURI	**55**
MONTANA	**17**
NEBRASKA	**12**
NEVADA	**18**
NEW HAMPSHIRE	**1**
NEW JERSEY	**12**
NEW MEXICO	**10**
NEW YORK	**96**
NORTH CAROLINA	**45**
NORTH DAKOTA	**7**
OHIO	**39**
OKLAHOMA	**19**
OREGON	**41**
PENNSYLVANIA	**36**
RHODE ISLAND	**14**
SOUTH CAROLINA	**15**
SOUTH DAKOTA	**12**
TENNESSEE	**22**
TEXAS	**247**
UTAH	**47**
VIRGINIA	**26**
WASHINGTON	**62**
WISCONSIN	**15**
WYOMING	**4**
Total	**2017**

```
40.
```

```
41. tabstat mayor_pres_party if str_mayor_pres_gover_party==1, by(primary_place_of_perfo
  > rmance_sta) stat(n) // column 7

  Summary for variables: mayor_pres_party
       by categories of: primary_place_of_performance_sta (primary_place_of_performance_
  > state_name)
```

primary_place_of_performance_sta	N
ALABAMA	**12**
ARIZONA	**15**
ARKANSAS	**10**
CALIFORNIA	**150**
COLORADO	**19**
CONNECTICUT	**16**
FLORIDA	**46**
GEORGIA	**3**
IDAHO	**8**
ILLINOIS	**54**
INDIANA	**1**
IOWA	**7**
KANSAS	**3**
KENTUCKY	**11**
LOUISIANA	**3**
MARYLAND	**6**
MASSACHUSETTS	**61**
MICHIGAN	**16**
MINNESOTA	**23**
MISSOURI	**31**
MONTANA	**11**
NEVADA	**2**
NEW JERSEY	**7**
NEW MEXICO	**2**
NEW YORK	**24**
NORTH CAROLINA	**15**
OHIO	**10**
OKLAHOMA	**9**
OREGON	**8**
PENNSYLVANIA	**6**
RHODE ISLAND	**4**
SOUTH DAKOTA	**4**
TENNESSEE	**16**
TEXAS	**130**
UTAH	**28**
VIRGINIA	**8**
WASHINGTON	**40**
WISCONSIN	**6**
WYOMING	**4**
Total	**829**

```
42.
43.
44. bysort geo_fips: keep if _n==1 // * Count city list: 569
  (8,051 observations deleted)

45.
46. gen city=1
```

```
47.
48. bysort state_fips: egen city_count=total(city) //

49.
50. gen city_count_rat=city_count/569

51.
52.
53. tabstat city_count, by(primary_place_of_performance_sta) stat(n) // column 1
```

Summary for variables: city_count
by categories of: primary_place_of_performance_sta (primary_place_of_performance_state_name)

primary_place_of_performance_sta	N
ALABAMA	**8**
ALASKA	**1**
ARIZONA	**14**
ARKANSAS	**5**
CALIFORNIA	**90**
COLORADO	**13**
CONNECTICUT	**11**
DELAWARE	**1**
DISTRICT OF COLUMBIA	**1**
FLORIDA	**41**
GEORGIA	**10**
IDAHO	**4**
ILLINOIS	**29**
INDIANA	**15**
IOWA	**10**
KANSAS	**7**
KENTUCKY	**4**
LOUISIANA	**7**
MAINE	**1**
MARYLAND	**5**
MASSACHUSETTS	**19**
MICHIGAN	**23**
MINNESOTA	**20**
MISSISSIPPI	**2**
MISSOURI	**10**
MONTANA	**3**
NEBRASKA	**4**
NEVADA	**6**
NEW HAMPSHIRE	**2**
NEW JERSEY	**13**
NEW MEXICO	**4**
NEW YORK	**13**
NORTH CAROLINA	**18**
NORTH DAKOTA	**2**
OHIO	**16**
OKLAHOMA	**6**
OREGON	**10**
PENNSYLVANIA	**9**
RHODE ISLAND	**4**
SOUTH CAROLINA	**4**
SOUTH DAKOTA	**2**
TENNESSEE	**10**
TEXAS	**48**
UTAH	**10**
VIRGINIA	**10**
WASHINGTON	**14**
WISCONSIN	**9**
WYOMING	**1**
Total	**569**

```
54.
55. tabstat city_count_rat, by(primary_place_of_performance_sta) stat(mean) // column 2

  Summary for variables: city_count_rat
       by categories of: primary_place_of_performance_sta (primary_place_of_performance_
  > state_name)
```

primary_place_of_performance_sta	mean
ALABAMA	.0140598
ALASKA	.0017575
ARIZONA	.0246046
ARKANSAS	.0087873
CALIFORNIA	.1581722
COLORADO	.0228471
CONNECTICUT	.0193322
DELAWARE	.0017575
DISTRICT OF COLUMBIA	.0017575
FLORIDA	.0720562
GEORGIA	.0175747
IDAHO	.0070299
ILLINOIS	.0509666
INDIANA	.026362
IOWA	.0175747
KANSAS	.0123023
KENTUCKY	.0070299
LOUISIANA	.0123023
MAINE	.0017575
MARYLAND	.0087873
MASSACHUSETTS	.0333919
MICHIGAN	.0404218
MINNESOTA	.0351494
MISSISSIPPI	.0035149
MISSOURI	.0175747
MONTANA	.0052724
NEBRASKA	.0070299
NEVADA	.0105448
NEW HAMPSHIRE	.0035149
NEW JERSEY	.0228471
NEW MEXICO	.0070299
NEW YORK	.0228471
NORTH CAROLINA	.0316344
NORTH DAKOTA	.0035149
OHIO	.0281195
OKLAHOMA	.0105448
OREGON	.0175747
PENNSYLVANIA	.0158172
RHODE ISLAND	.0070299
SOUTH CAROLINA	.0070299
SOUTH DAKOTA	.0035149
TENNESSEE	.0175747
TEXAS	.0843585
UTAH	.0175747
VIRGINIA	.0175747
WASHINGTON	.0246046
WISCONSIN	.0158172
WYOMING	.0017575
Total	.0534746

```
56.
57.
58.
59.
60.
61. log close
        name:  <unnamed>
         log:  F:\fiscal research\mayor\PSRM data\PSRM_descstat3_log.smcl
    log type:  smcl
   closed on:  19 Dec 2023, 09:59:25
```