Worksheet 1

Jarod Wright

8/25/2021

```
library(readr)
library(dplyr)
library(kableExtra)
covid.states <- read_csv("states.csv")</pre>
#dim(covid.states)
#colnames(covid.states)
#covid.states$state
tab1=covid.states[, c("state", "population", "actuals.cases", "actuals.deaths", "actuals.hospitalBeds.c
print(tab1)
## # A tibble: 53 x 5
      state population actuals.cases actuals.deaths actuals.hospitalBeds.currentUs~
##
##
      <chr>
                 <dbl>
                                <dbl>
                                                                                 <dbl>
                                80656
##
   1 AK
                731545
                                                  391
                                                                                   132
## 2 AL
               4903185
                               638821
                                                11832
                                                                                  2780
## 3 AR
                                                 6539
               3017804
                               422866
                                                                                  1443
  4 AZ
               7278717
                               969182
                                                18467
                                                                                  1796
## 5 CA
              39512223
                                                64727
                                                                                  7852
                              4243746
## 6 CO
               5758736
                               596918
                                                 7205
                                                                                   632
## 7 CT
               3565287
                               363474
                                                 8307
                                                                                   355
## 8 DC
                705749
                                                 1151
                                                                                   115
                                52843
## 9 DE
                973764
                               114912
                                                 1840
                                                                                   168
## 10 FL
              21477737
                              2951228
                                                41130
                                                                                 16841
## # ... with 43 more rows
kable(tab1)
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| AK 731545 80656 391 132 AL 4903185 638821 11832 2780 AR 3017804 422866 6539 1443 AZ 7278717 969182 18467 1776 CA 39512223 4243746 64727 7852 CO 5758736 596918 7205 632 CT 3565287 363474 8307 355 DC 705749 52843 1151 115 DE 973764 114912 1840 168 FL 2147773 2951228 41130 16841 FL 2147737 2951228 41130 1684 GA 10617423 1251359 21343 5023 HI 1415872 50180 549 335 LA 3155070 390978 6210 486 D 1787065 21035 2261 369 IL 12071821 14 | state | population | actuals.cases | actuals.deaths | actuals.hospitalBeds.currentUsageCovid |
|--|--------------------------|------------|---------------|----------------|--|
| AR 3017804 422866 6539 1443 AZ 7778717 969182 18467 1796 CA 3951223 4243746 64727 7852 CO 5758736 596918 7205 632 CT 3565287 363474 8307 355 DC 705749 52843 1151 115 DE 973764 114912 1840 168 FL 21477737 2951228 41130 16841 GA 10617423 1251359 21343 5023 III 1415872 50180 549 335 IA 3155070 390978 6210 486 ID 1787065 210395 2261 369 II. 1267821 1474807 26144 1919 IN 6732219 809062 14173 1491 KS 2913314 351554 5427 682 KY 4667894 | AK | 731545 | 80656 | 391 | 132 |
| AZ 7278717 969182 18467 1796 CA 39512233 4243746 64727 7852 CO 5758736 596918 7205 632 CT 365287 363474 8307 355 DC 705749 52843 1151 115 DE 973764 114912 1840 168 FL 21477737 2951228 41130 16841 GA 10617423 1251359 21343 5023 HI 1415872 50180 549 335 IA 3155070 390978 6210 486 ID 1787065 210395 2261 369 IL 12671821 1474807 26144 1919 IN 6732219 809062 14173 1491 KS 2913314 351554 5427 682 KY 4467673 52290 7511 1666 LA 4648794 <t< td=""><td>AL</td><td>4903185</td><td>638821</td><td>11832</td><td>2780</td></t<> | AL | 4903185 | 638821 | 11832 | 2780 |
| CA 39512223 4243746 64727 7852 CO 5758736 596918 7205 632 CT 3565287 363174 8307 355 DC 705749 52843 1151 115 DE 973764 114912 1840 1684 FL 21477737 2951228 44130 16841 GA 10617423 1251359 21343 5023 HI 1145572 50180 549 333 IA 3155070 390978 6210 486 ID 1787065 210395 2261 369 IL 12671821 11474807 26144 1919 IN 6732219 809062 14173 1491 KS 2913314 351554 5427 682 KY 4467673 522999 7511 1666 LA 4648794 631837 11706 2703 MA 6892503 | AR | 3017804 | 422866 | 6539 | 1443 |
| CO 5758736 596918 7205 CT 3565287 363474 8307 355 DC 705749 52843 1151 115 DE 973764 114912 1840 168 FL 2147737 2951228 41130 16841 FL 2147737 2951228 41130 16841 GA 10617423 1251359 21343 5023 III 1415872 50180 549 335 IA 3155070 390978 6210 486 ID 1787065 210395 2261 369 IL 12671821 1474807 26144 1919 IN 6732219 809062 14173 1491 KS 291343 351554 5427 682 KY 446763 52290 7511 1666 LA 4648794 631337 11706 2703 MA 6892503 739047 | AZ | 7278717 | 969182 | 18467 | 1796 |
| CT 3565287 363474 8307 355 DC 705749 52843 1151 115 DE 973764 114912 1840 168 FL 21477737 2951228 41130 16841 GA 10617423 1251359 21343 5023 HI 1415872 50180 549 335 IA 3155070 390978 6210 486 ID 1787065 210395 2261 369 II. 12671821 1474807 26144 1919 IN 6732219 809062 14173 1491 KS 2913314 351554 5427 682 KY 4467673 522990 7511 1666 LA 4648794 631837 11706 2703 MA 6892503 739047 18154 381 MD 6045680 481790 9899 790 ME 1344212 <t< td=""><td>CA</td><td>39512223</td><td>4243746</td><td>64727</td><td>7852</td></t<> | CA | 39512223 | 4243746 | 64727 | 7852 |
| DC 705749 52843 1151 115 DE 973764 114912 1840 168 FL 21477737 2951228 41130 16841 GA 10617423 1251359 21343 5023 HI 1415872 50180 549 335 IA 3155070 390978 6210 486 ID 1787065 210395 2261 369 IL 12671821 1474807 26144 1919 IN 6732219 809062 14173 1491 KS 2913314 351554 5427 682 KY 4467673 522990 7511 1666 LA 4648794 631837 11706 2703 MA 6892503 739047 18154 381 MD 6045680 481790 9899 790 MI 9986857 1031023 21299 925 MN 5639632 < | CO | 5758736 | 596918 | 7205 | 632 |
| DE | $\overline{\mathrm{CT}}$ | 3565287 | 363474 | 8307 | 355 |
| FL 21477737 2951228 41130 16841 GA 10617423 1251359 21343 5023 IH 1415872 50180 549 335 IA 3155070 390978 6210 486 ID 1787065 210395 2261 369 IL 12671821 1474807 26144 1919 IN 6732219 809062 14173 1491 KS 2913314 351554 5427 682 KY 4467673 522990 7511 1666 LA 4648794 631837 11706 2703 MA 6892503 739047 18154 381 MD 6045680 481790 989 790 ME 1344212 72896 907 108 MI 9986857 1031023 21299 925 MN 5639632 629447 7830 525 MO 6137428 < | $\overline{\mathrm{DC}}$ | 705749 | 52843 | 1151 | 115 |
| GA 10617423 1251359 21343 5023 HI 1418872 50180 549 335 IA 3155070 390978 6210 486 ID 1787065 210395 2261 369 IL 12671821 1474807 26144 1919 IN 6732219 889062 14173 1491 KS 2913314 351554 5427 682 KY 4467673 522990 7511 1666 LA 4648794 631837 11706 2703 MA 6892503 739047 18154 381 MD 6045680 481790 9899 790 ME 1344212 72896 907 108 MI 9986857 1031023 21299 925 MN 5636632 629447 7830 525 MO 6137428 740466 10807 2374 MP 53605 2 | DE | 973764 | 114912 | 1840 | 168 |
| HI | FL | 21477737 | 2951228 | 41130 | 16841 |
| IA 3155070 390978 6210 486 ID 1787065 210395 2261 369 IL 12671821 1474807 26144 1919 IN 6732219 809062 14173 1491 KS 2913314 351554 5427 682 KY 4467673 522900 75111 1666 IA 4648794 631837 11706 2703 MA 6892503 739047 18154 381 MD 6045680 481790 9899 790 790 ME 1344212 72896 907 108 MI 9986857 1031023 21299 925 MN 5639632 629447 7830 525 MO 6137428 740846 10807 2374 MP 53605 220 2 | GA | 10617423 | 1251359 | 21343 | 5023 |
| ID | HI | 1415872 | 50180 | 549 | 335 |
| III | IA | 3155070 | 390978 | 6210 | 486 |
| The color of the | ID | 1787065 | 210395 | 2261 | 369 |
| IN | IL | 12671821 | 1474807 | 26144 | 1919 |
| KY 4467673 522990 7511 1666 LA 4648794 631837 11706 2703 MA 6892503 739047 18154 381 MD 6045680 481790 9899 790 ME 1344212 72896 907 108 MI 9986857 1031023 21299 925 MN 5639632 629447 7830 525 MO 6137428 740846 10807 2374 MP 53605 220 2 NA MS 2976149 392309 7880 1656 MT 1068778 121058 1743 213 NC 10488084 1122695 13912 2558 ND 762062 113704 1579 106 NE 1934408 235075 2566 290 NH 1359711 103733 1396 70 NJ 8882190 1064059 | IN | 6732219 | 809062 | 14173 | 1491 |
| LA 4648794 631837 11706 2703 MA 6892503 739047 18154 381 MD 6045680 481790 9899 790 ME 1344212 72896 907 108 MI 9986857 1031023 21299 925 MN 5639632 629447 7830 525 MO 6137428 740846 10807 2374 MP 53605 220 2 NA MS 2976149 392309 7880 1656 MT 1068778 121058 1743 213 NC 10488084 1122695 13912 2558 ND 762062 113704 1579 106 NE 1934408 235075 2566 290 NH 1359711 103733 1396 70 NJ 8882190 1064059 26715 990 NM 2096829 221087 | KS | 2913314 | 351554 | 5427 | 682 |
| MA 6892503 739047 18154 381 MD 6045680 481790 9899 790 ME 1344212 72896 907 108 MI 9986857 1031023 21299 925 MN 5639632 629447 7830 525 MO 6137428 740846 10807 2374 MP 53605 220 2 NA MS 2976149 392309 7880 1656 MT 1068778 121058 1743 213 NC 10488084 1122695 13912 2558 ND 762062 113704 1579 106 NE 1934408 235075 2566 290 NH 1359711 103733 1396 70 NJ 8882190 1064059 26715 990 NM 2096829 221087 4457 367 NV 3080156 374651 | KY | 4467673 | 522990 | 7511 | 1666 |
| MD 6045680 481790 9899 790 ME 1344212 72896 907 108 MI 9986857 1031023 21299 925 MN 5639632 629447 7830 525 MO 6137428 740846 10807 2374 MP 53605 220 2 NA MS 2976149 392309 7880 1656 MT 1068778 121058 1743 213 NC 10488084 1122695 13912 2558 ND 762062 113704 1579 106 NE 1934408 235075 2566 290 NH 1359711 103733 1396 70 NJ 8882190 1064059 26715 990 NM 2096829 221087 4457 367 NV 3080156 374651 6223 1293 NY 19453561 221095 | LA | 4648794 | 631837 | 11706 | 2703 |
| ME 1344212 72896 907 108 MI 9986857 1031023 21299 925 MN 5639632 629447 7830 525 MO 6137428 740846 10807 2374 MP 53605 220 2 NA MS 2976149 392309 7880 1656 MT 1068778 121058 1743 213 NC 10488084 1122695 13912 2558 ND 762062 113704 1579 106 NE 1934408 235075 2566 290 NH 1359711 103733 1396 70 NJ 8882190 1064059 26715 990 NM 2096829 221087 4457 367 NV 3080156 374651 6223 1293 OH 11689100 1164808 20648 1863 OK 3956971 516663 <td>MA</td> <td>6892503</td> <td>739047</td> <td>18154</td> <td>381</td> | MA | 6892503 | 739047 | 18154 | 381 |
| MI 9986857 1031023 21299 925 MN 5639632 629447 7830 525 MO 6137428 740846 10807 2374 MP 53605 220 2 NA MS 2976149 392309 7880 1656 MT 1068778 121058 1743 213 NC 10488084 1122695 13912 2558 ND 762062 113704 1579 106 NE 1934408 235075 2566 290 NH 1359711 103733 1396 70 NJ 8882190 1064059 26715 990 NM 2096829 221087 4457 367 NV 3080156 374651 6223 1293 NY 19453561 2211095 53519 2231 OH 11689100 1164808 20648 1863 OK 3956971 5166 | MD | 6045680 | 481790 | 9899 | 790 |
| MN 5639632 629447 7830 525 MO 6137428 740846 10807 2374 MP 53605 220 2 NA MS 2976149 392309 7880 1656 MT 1068778 121058 1743 213 NC 10488084 1122695 13912 2558 ND 762062 113704 1579 106 NE 1934408 235075 2566 290 NH 1359711 103733 1396 70 NJ 8882190 1064059 26715 990 NM 2096829 221087 4457 367 NV 3080156 374651 6223 1293 NY 19453561 2211095 53519 2231 OH 11689100 1164808 20648 1863 OK 3956971 516663 7594 1449 PA 12801989 1258 | ME | 1344212 | 72896 | 907 | 108 |
| MO 6137428 740846 10807 2374 MP 53605 220 2 NA MS 2976149 392309 7880 1656 MT 1068778 121058 1743 213 NC 10488084 1122695 13912 2558 ND 762062 113704 1579 106 NE 1934408 235075 2566 290 NH 1359711 103733 1396 70 NJ 8882190 1064059 26715 990 NM 2096829 221087 4457 367 NV 3080156 374651 6223 1293 NY 19453561 2211095 53519 2231 OH 11689100 1164808 20648 1863 OK 3956971 516663 7594 1497 OR 4217737 245758 2986 798 PA 12801989 1258 | MI | 9986857 | 1031023 | 21299 | 925 |
| MP 53605 220 2 NA MS 2976149 392309 7880 1656 MT 1068778 121058 1743 213 NC 10488084 1122695 13912 2558 ND 762062 113704 1579 106 NE 1934408 235075 2566 290 NH 1359711 103733 1396 70 NJ 8882190 1064059 26715 990 NM 2096829 221087 4457 367 NV 3080156 374651 6223 1293 NY 19453561 2211095 53519 2231 OH 11689100 1164808 20648 1863 OK 3956971 516663 7594 1497 OR 4217737 245758 2986 798 PA 12801989 1258774 27993 1432 PR 3193694 192 | MN | 5639632 | 629447 | 7830 | 525 |
| MS 2976149 392309 7880 1656 MT 1068778 121058 1743 213 NC 10488084 1122695 13912 2558 ND 762062 113704 1579 106 NE 1934408 235075 2566 290 NH 1359711 103733 1396 70 NJ 8882190 1064059 26715 990 NM 2096829 221087 4457 367 NV 3080156 374651 6223 1293 NY 19453561 2211095 53519 2231 OH 11689100 1164808 20648 1863 OK 3956971 516663 7594 1497 OR 4217737 245758 2986 798 PA 12801989 1258774 27993 1432 PR 3193694 192802 2678 442 RI 1059361 | MO | 6137428 | 740846 | 10807 | 2374 |
| MS 2976149 392309 7880 1656 MT 1068778 121058 1743 213 NC 10488084 1122695 13912 2558 ND 762062 113704 1579 106 NE 1934408 235075 2566 290 NH 1359711 103733 1396 70 NJ 8882190 1064059 26715 990 NM 2096829 221087 4457 367 NV 3080156 374651 6223 1293 NY 19453561 2211095 53519 2231 OH 11689100 1164808 20648 1863 OK 3956971 516663 7594 1497 OR 4217737 245758 2986 798 PA 12801989 1258774 27993 1432 PR 3193694 192802 2678 442 RI 1059361 | MP | 53605 | 220 | 2 | NA |
| NC 10488084 1122695 13912 2558 ND 762062 113704 1579 106 NE 1934408 235075 2566 290 NH 1359711 103733 1396 70 NJ 8882190 1064059 26715 990 NM 2096829 221087 4457 367 NV 3080156 374651 6223 1293 NY 19453561 2211095 53519 2231 OH 11689100 1164808 20648 1863 OK 3956971 516663 7594 1497 OR 4217737 245758 2986 798 PA 12801989 1258774 27993 1432 PR 3193694 192802 2678 442 RI 1059361 158614 2747 106 SC 5148714 669638 10115 1712 SD 884659 | MS | 2976149 | | 7880 | 1656 |
| ND 762062 113704 1579 106 NE 1934408 235075 2566 290 NH 1359711 103733 1396 70 NJ 8882190 1064059 26715 990 NM 2096829 221087 4457 367 NV 3080156 374651 6223 1293 NY 19453561 2211095 53519 2231 OH 11689100 1164808 20648 1863 OK 3956971 516663 7594 1497 OR 4217737 245758 2986 798 PA 12801989 1258774 27993 1432 PR 3193694 192802 2678 442 RI 1059361 158614 2747 106 SC 5148714 669638 10115 1712 SD 884659 127320 2055 93 TN 6829174 <td< td=""><td>MT</td><td>1068778</td><td>121058</td><td>1743</td><td>213</td></td<> | MT | 1068778 | 121058 | 1743 | 213 |
| NE 1934408 235075 2566 290 NH 1359711 103733 1396 70 NJ 8882190 1064059 26715 990 NM 2096829 221087 4457 367 NV 3080156 374651 6223 1293 NY 19453561 2211095 53519 2231 OH 11689100 1164808 20648 1863 OK 3956971 516663 7594 1497 OR 4217737 245758 2986 798 PA 12801989 1258774 27993 1432 PR 3193694 192802 2678 442 RI 1059361 158614 2747 106 SC 5148714 669638 10115 1712 SD 884659 127320 2055 93 TN 6829174 942488 12916 2374 TX 28995881 | NC | 10488084 | 1122695 | 13912 | 2558 |
| NH 1359711 103733 1396 70 NJ 8882190 1064059 26715 990 NM 2096829 221087 4457 367 NV 3080156 374651 6223 1293 NY 19453561 2211095 53519 2231 OH 11689100 1164808 20648 1863 OK 3956971 516663 7594 1497 OR 4217737 245758 2986 798 PA 12801989 1258774 27993 1432 PR 3193694 192802 2678 442 RI 1059361 158614 2747 106 SC 5148714 669638 10115 1712 SD 884659 127320 2055 93 TN 6829174 942488 12916 2374 TX 28995881 3333104 54643 12380 UT 3205958 | ND | 762062 | 113704 | 1579 | 106 |
| NJ 8882190 1064059 26715 990 NM 2096829 221087 4457 367 NV 3080156 374651 6223 1293 NY 19453561 2211095 53519 2231 OH 11689100 1164808 20648 1863 OK 3956971 516663 7594 1497 OR 4217737 245758 2986 798 PA 12801989 1258774 27993 1432 PR 3193694 192802 2678 442 RI 1059361 158614 2747 106 SC 5148714 669638 10115 1712 SD 884659 127320 2055 93 TN 6829174 942488 12916 2374 TX 28995881 3333104 54643 12380 UT 3205958 447845 2537 374 VA 8535519 | NE | 1934408 | 235075 | 2566 | 290 |
| NM 2096829 221087 4457 367 NV 3080156 374651 6223 1293 NY 19453561 2211095 53519 2231 OH 11689100 1164808 20648 1863 OK 3956971 516663 7594 1497 OR 4217737 245758 2986 798 PA 12801989 1258774 27993 1432 PR 3193694 192802 2678 442 RI 1059361 158614 2747 106 SC 5148714 669638 10115 1712 SD 884659 127320 2055 93 TN 6829174 942488 12916 2374 TX 28995881 3333104 54643 12380 UT 3205958 447845 2537 374 VA 8535519 725971 11625 1160 VT 623989 | NH | 1359711 | 103733 | 1396 | 70 |
| NV 3080156 374651 6223 1293 NY 19453561 2211095 53519 2231 OH 11689100 1164808 20648 1863 OK 3956971 516663 7594 1497 OR 4217737 245758 2986 798 PA 12801989 1258774 27993 1432 PR 3193694 192802 2678 442 RI 1059361 158614 2747 106 SC 5148714 669638 10115 1712 SD 884659 127320 2055 93 TN 6829174 942488 12916 2374 TX 28995881 3333104 54643 12380 UT 3205958 447845 2537 374 VA 8535519 725971 11625 1160 VT 623989 26397 264 28 WA 7614893 | NJ | 8882190 | 1064059 | 26715 | 990 |
| NY 19453561 2211095 53519 2231 OH 11689100 1164808 20648 1863 OK 3956971 516663 7594 1497 OR 4217737 245758 2986 798 PA 12801989 1258774 27993 1432 PR 3193694 192802 2678 442 RI 1059361 158614 2747 106 SC 5148714 669638 10115 1712 SD 884659 127320 2055 93 TN 6829174 942488 12916 2374 TX 28995881 3333104 54643 12380 UT 3205958 447845 2537 374 VA 8535519 725971 11625 1160 VT 623989 26397 264 28 WA 7614893 518604 6317 1313 WI 5822434 | NM | 2096829 | 221087 | 4457 | 367 |
| OH 11689100 1164808 20648 1863 OK 3956971 516663 7594 1497 OR 4217737 245758 2986 798 PA 12801989 1258774 27993 1432 PR 3193694 192802 2678 442 RI 1059361 158614 2747 106 SC 5148714 669638 10115 1712 SD 884659 127320 2055 93 TN 6829174 942488 12916 2374 TX 28995881 3333104 54643 12380 UT 3205958 447845 2537 374 VA 8535519 725971 11625 1160 VT 623989 26397 264 28 WA 7614893 518604 6317 1313 WI 5822434 708904 8336 730 WV 1792147 <t< td=""><td>NV</td><td>3080156</td><td>374651</td><td>6223</td><td>1293</td></t<> | NV | 3080156 | 374651 | 6223 | 1293 |
| OK 3956971 516663 7594 1497 OR 4217737 245758 2986 798 PA 12801989 1258774 27993 1432 PR 3193694 192802 2678 442 RI 1059361 158614 2747 106 SC 5148714 669638 10115 1712 SD 884659 127320 2055 93 TN 6829174 942488 12916 2374 TX 28995881 3333104 54643 12380 UT 3205958 447845 2537 374 VA 8535519 725971 11625 1160 VT 623989 26397 264 28 WA 7614893 518604 6317 1313 WI 5822434 708904 8336 730 WV 1792147 174818 2990 409 | NY | 19453561 | 2211095 | 53519 | 2231 |
| OR 4217737 245758 2986 798 PA 12801989 1258774 27993 1432 PR 3193694 192802 2678 442 RI 1059361 158614 2747 106 SC 5148714 669638 10115 1712 SD 884659 127320 2055 93 TN 6829174 942488 12916 2374 TX 28995881 3333104 54643 12380 UT 3205958 447845 2537 374 VA 8535519 725971 11625 1160 VT 623989 26397 264 28 WA 7614893 518604 6317 1313 WI 5822434 708904 8336 730 WV 1792147 174818 2990 409 | ОН | 11689100 | 1164808 | 20648 | 1863 |
| PA 12801989 1258774 27993 1432 PR 3193694 192802 2678 442 RI 1059361 158614 2747 106 SC 5148714 669638 10115 1712 SD 884659 127320 2055 93 TN 6829174 942488 12916 2374 TX 28995881 3333104 54643 12380 UT 3205958 447845 2537 374 VA 8535519 725971 11625 1160 VT 623989 26397 264 28 WA 7614893 518604 6317 1313 WI 5822434 708904 8336 730 WV 1792147 174818 2990 409 | OK | 3956971 | 516663 | 7594 | 1497 |
| PR 3193694 192802 2678 442 RI 1059361 158614 2747 106 SC 5148714 669638 10115 1712 SD 884659 127320 2055 93 TN 6829174 942488 12916 2374 TX 28995881 3333104 54643 12380 UT 3205958 447845 2537 374 VA 8535519 725971 11625 1160 VT 623989 26397 264 28 WA 7614893 518604 6317 1313 WI 5822434 708904 8336 730 WV 1792147 174818 2990 409 | OR | 4217737 | 245758 | 2986 | 798 |
| RI 1059361 158614 2747 106 SC 5148714 669638 10115 1712 SD 884659 127320 2055 93 TN 6829174 942488 12916 2374 TX 28995881 3333104 54643 12380 UT 3205958 447845 2537 374 VA 8535519 725971 11625 1160 VT 623989 26397 264 28 WA 7614893 518604 6317 1313 WI 5822434 708904 8336 730 WV 1792147 174818 2990 409 | PA | 12801989 | 1258774 | 27993 | 1432 |
| SC 5148714 669638 10115 1712 SD 884659 127320 2055 93 TN 6829174 942488 12916 2374 TX 28995881 3333104 54643 12380 UT 3205958 447845 2537 374 VA 8535519 725971 11625 1160 VT 623989 26397 264 28 WA 7614893 518604 6317 1313 WI 5822434 708904 8336 730 WV 1792147 174818 2990 409 | PR | 3193694 | 192802 | 2678 | 442 |
| SD 884659 127320 2055 93 TN 6829174 942488 12916 2374 TX 28995881 3333104 54643 12380 UT 3205958 447845 2537 374 VA 8535519 725971 11625 1160 VT 623989 26397 264 28 WA 7614893 518604 6317 1313 WI 5822434 708904 8336 730 WV 1792147 174818 2990 409 | RI | 1059361 | 158614 | 2747 | 106 |
| TN 6829174 942488 12916 2374 TX 28995881 3333104 54643 12380 UT 3205958 447845 2537 374 VA 8535519 725971 11625 1160 VT 623989 26397 264 28 WA 7614893 518604 6317 1313 WI 5822434 708904 8336 730 WV 1792147 174818 2990 409 | \overline{SC} | 5148714 | 669638 | 10115 | 1712 |
| TX 28995881 3333104 54643 12380 UT 3205958 447845 2537 374 VA 8535519 725971 11625 1160 VT 623989 26397 264 28 WA 7614893 518604 6317 1313 WI 5822434 708904 8336 730 WV 1792147 174818 2990 409 | $\overline{\mathrm{SD}}$ | 884659 | 127320 | 2055 | 93 |
| UT 3205958 447845 2537 374 VA 8535519 725971 11625 1160 VT 623989 26397 264 28 WA 7614893 518604 6317 1313 WI 5822434 708904 8336 730 WV 1792147 174818 2990 409 | | 6829174 | 942488 | 12916 | 2374 |
| VA 8535519 725971 11625 1160 VT 623989 26397 264 28 WA 7614893 518604 6317 1313 WI 5822434 708904 8336 730 WV 1792147 174818 2990 409 | TX | 28995881 | 3333104 | 54643 | 12380 |
| VT 623989 26397 264 28 WA 7614893 518604 6317 1313 WI 5822434 708904 8336 730 WV 1792147 174818 2990 409 | UT | 3205958 | 447845 | 2537 | 374 |
| WA 7614893 518604 6317 1313 WI 5822434 708904 8336 730 WV 1792147 174818 2990 409 | VA | 8535519 | 725971 | 11625 | 1160 |
| WI 5822434 708904 8336 730 WV 1792147 174818 2990 409 | \overline{VT} | 623989 | 26397 | 264 | 28 |
| WV 1792147 174818 2990 409 | | | 518604 | | |
| | | 5822434 | | | 730 |
| WY 578759 69356 809 119 | | | 174818 | 2990 | 409 |
| | WY | 578759 | 69356 | 809 | 119 |

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tab2=covid.states[,c("actuals.vaccinesDistributed","actuals.vaccinationsInitiated","actuals.vaccination
kable(tab2) %>%
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tab3 <- covid.states[, c("state","actuals.vaccinesDistributed","actuals.vaccinationsInitiated","actuals
tab3 <- tab3 %>% filter(state == "MS" | state == "TN")

kable(tab3) %>%
  kable_styling(latex_options="scale_down", "HOLD_position")
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| 5681220 2295803 1748529 4023 8/18/2021 3374320 1537728 1170974 2020 8/18/2021 526128 5272945 26623722 21479164 10001 8/18/2021 5272945 26623722 21479164 10001 8/18/2021 5716525 2261239 22032852 818 18/18/2021 114385 46557 3208386 163 8/18/2021 114385 46557 3208386 163 8/18/2021 1382945 6008575 525051 142 8/18/2021 12833385 1320916 10885504 21669 8/18/2021 12315305 5177490 4218800 7464 8/18/2021 2233385 5177490 4218800 7464 8/18/2021 2315305 5177490 4218800 7464 8/18/2021 3708305 1736558 1595747 1755 8/18/2021 15335405 5176176 6322093 3567 8/18/2021 15335405 8167176 6322093 3567 8/18/2021 3403155 1620718 1356002 110 8/18/2021 4022912 4 | 885235 | 386600 | 338872 | 449 | 8/18/2021 |
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| \$\frac{5072945}{7415615} \ \frac{352772}{352727} \ \frac{203826}{343826} \ \frac{1436}{443} \ \frac{877777}{3203826} \ \frac{1436}{4436} \ \frac{877777}{3203826} \ \frac{1436}{4436} \ \frac{8772777}{3203826} \ \frac{1436}{485567} \ \frac{3207089}{320652} \ \frac{881}{818} \ \frac{8782021}{818} \ \frac{8782021}{114885} \ \frac{455677}{455697} \ \frac{3207089}{320651} \ \frac{12}{12} \ \frac{8782021}{818} \ \frac{8782021}{12313995} \ \frac{128264}{1230916} \ \frac{608575}{10823085} \ \frac{12809116}{12313995} \ \frac{1582061}{12313995} \ \frac{12880}{1230916} \ \frac{448880}{14882021} \ \frac{448880}{44882021} \ \frac{448880}{44882021} \ \frac{44898}{4582021} \ \frac{458880}{44882021} \ \frac{458880}{44882021} \ \frac{458880}{44882021} \ \frac{458880}{44862070} \ \frac{458880}{44882070} \ \frac{458880}{44882070} \ \frac{458880}{448820} \ \frac{44408}{48882070} \ \frac{458880}{44882070} \ \frac{458880}{408475} \ \frac{3110}{48882070} \ \frac{458880}{408470} \ \frac{458820}{408490} \ \frac{458820}{44882021} \ \frac{45880}{4084820} \ \frac{45880}{44498} \ \frac{458450}{44498} \ \frac{458450}{44499} \ \frac{458450}{44499} \ \frac{458450}{44499} \ \frac{458450}{44499} \ \frac{458450}{449499} \ \frac{458450}{448990} \ \frac{458450}{44890} \ 458 | 8901590 | 4015261 | 3388691 | 2661 | 8/18/2021 |
| 7416016 3572777 3203826 1463 8/18/2021 5105826 2564239 2302652 818 8/18/2021 1114385 465597 397080 66 8/18/2021 1382945 609675 525051 142 8/18/2021 22233385 13209116 1083304 21669 8/18/2021 2333385 5177490 4218080 7464 8/18/2021 2029120 1052025 769575 453 8/18/2021 3708306 1736588 1595747 1755 8/18/2021 1831140 761666 681540 905 8/18/2021 15935405 8167176 6322093 3567 8/18/2021 3403155 1620718 1356902 110 8/18/2021 4862970 2185399 1801301 3601 8/18/2021 1913310 5110559 4473466 1468 8/18/2021 191200 940414 870343 375 8/18/2021 1917200 940414 <td>52722945</td> <td>26523722</td> <td>21479164</td> <td>10901</td> <td></td> | 52722945 | 26523722 | 21479164 | 10901 | |
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| 28233385 | 1382945 | 609575 | 525051 | 142 | |
| 12313595 5177490 4218980 7464 8/18/2021 2029120 1032025 769575 453 8/18/2021 3708305 1736558 1595747 1755 8/18/2021 1831140 761666 681540 905 8/18/2021 15935405 8167176 6322093 3367 8/18/2021 3708830 3224740 3042425 2695 8/18/2021 3403155 1620718 1356602 110 8/18/2021 4925045 2444098 2094475 3141 8/18/2021 4862970 2185399 1801301 3691 8/18/2021 4925045 2444098 2094475 3141 8/18/2021 4925045 2444098 2094475 3141 8/18/2021 4925045 2444098 2094475 3141 8/18/2021 4925045 2444098 2094475 3141 8/18/2021 4925045 2444098 2094475 3141 8/18/2021 4925045 2444098 2094475 3141 8/18/2021 4925045 2444098 2444098 2094475 3141 8/18/2021 4925045 2444098 2444098 3634107 851 8/18/2021 4924730 4029717 3634107 851 8/18/2021 4924730 4929717 3634107 851 8/18/2021 1971200 490414 870343 375 8/18/2021 12344500 5423670 4955984 139 8/18/2021 6944820 3419520 33081927 3044 8/18/2021 694870 3419520 33081927 3044 8/18/2021 3418655 1308267 1074309 33168 1 8/18/2021 31168 1 8/18/2021 3148655 1308267 1074309 3323 8/18/2021 169785 542268 480817 622 8/18/2021 169785 542268 480817 622 8/18/2021 2244160 1083853 979312 655 8/18/2021 2244160 1083853 979312 655 8/18/2021 2244160 1083853 979312 655 8/18/2021 22509705 6657182 5316248 1821 8/18/2021 2373725 1418742 1224169 747 8/18/2021 2373725 1418742 1224169 747 8/18/2021 2373725 1418742 1224169 747 8/18/2021 3497330 1731241 1418246 1002 8/18/2021 3497330 1731241 1418246 1002 8/18/2021 3497330 1731241 1418246 1002 8/18/2021 3497330 249390 2276402 1068871 362 8/18/2021 358649 2915 8/18/2021 358649 2915 8/18/2021 3586635 245078 2356649 2915 8/18/2021 3586635 245078 245698 31379043 245475 | | 13209116 | | 21669 | |
| 2029120 | 12313595 | 5177490 | 4218980 | 7464 | |
| 1736558 | 2029120 | | 769575 | 453 | |
| 1831140 | 3708305 | 1736558 | 1595747 | 1755 | |
| 15935405 | 1831140 | 761666 | 681540 | | |
| 7308830 3284740 3042425 2695 8/18/2021 3403155 1620718 1356902 110 8/18/2021 4425045 2444098 2094475 3141 8/18/2021 4862970 2185399 1801301 3691 8/18/2021 10193310 5110059 44473466 1468 8/18/2021 9924730 4029717 3634107 851 8/18/2021 1971200 940414 870343 375 8/18/2021 1934550 5423670 4955984 139 8/18/2021 6944820 3419520 3084927 3044 8/18/2021 78180 34091 31168 1 8/18/2021 3146655 1308267 1074309 3323 8/18/2021 1169785 542268 480817 622 8/18/2021 12648490 5614570 4705445 4610 8/18/2021 768360 357237 310727 269 8/18/2021 1956610 896275 | 15935405 | 8167176 | 6322093 | 3567 | |
| 3403155 | 7308830 | | | | |
| 4925045 2444098 2094475 3141 8/18/2021 4862970 2185399 1801301 3691 8/18/2021 10193310 5110059 4473466 1468 8/18/2021 9024730 4029717 3634107 851 8/18/2021 1971200 940414 870343 375 8/18/2021 12344500 5423670 4955984 133 8/18/2021 694820 3419520 3084927 3044 8/18/2021 6908775 3141452 2655248 2101 8/18/2021 78180 34091 31168 1 8/18/2021 3148655 1308267 1074309 3323 8/18/2021 1169785 542268 480817 622 8/18/2021 768360 357237 310727 269 8/18/2021 768360 357237 310727 269 8/18/2021 12509705 6057182 5316248 1821 8/18/2021 12509705 6057182 | 3403155 | 1620718 | 1356902 | 110 | |
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| 9024730 4029717 3634107 851 8/18/2021 1971200 940414 870343 375 8/18/2021 2344500 5423670 4955984 139 8/18/2021 6944820 3419520 3084927 3044 8/18/2021 6908775 3141452 2655248 2101 8/18/2021 3148655 1308267 1074309 3323 8/18/2021 1169785 542268 480817 622 8/18/2021 21648490 56614570 4705445 4610 8/18/2021 2244160 1083853 979312 655 8/18/2021 22537125 1418742 1224169 747 8/18/2021 2537125 1418742 1224169 747 8/18/2021 2348730 1731241 1418246 1002 8/18/2021 26036595 12734075 133892 1650149 2915 8/18/2021 3487330 1731241 1418246 1002 8/18/2021 3487330 1731241 1418246 1002 8/18/2021 3487330 1731241 1418246 1002 8/18/2021 3487330 1731241 1418246 1002 8/18/2021 3487330 1731241 1418246 1002 8/18/2021 3487330 1731241 1418246 1002 8/18/2021 3487330 1731241 1418246 1002 8/18/2021 3487330 1731241 1418246 1002 8/18/2021 3487330 1731241 1418246 1002 8/18/2021 3487330 1731241 1418246 1002 8/18/2021 3487330 1731241 1418246 1002 8/18/2021 3487330 1731241 1418246 1002 8/18/2021 3487330 1731241 1418246 1002 8/18/2021 3487330 1731241 1418246 1002 8/18/2021 3487330 1731241 1418246 1002 8/18/2021 3487330 1731241 1418246 1002 8/18/2021 3487330 1731241 1418246 1002 8/18/2021 3487330 1731241 3418246 1002 8/18/2021 3487330 1731241 3418246 1002 8/18/2021 3487330 1731241 3418246 1002 8/18/2021 3487330 1731241 3418246 1002 8/18/2021 3487330 1731241 3418246 1002 8/18/2021 3487330 1731241 3418246 1002 8/18/2021 3487330 348738 348739 3528 8/18/2021 3487390 348738 348739 3528 8/18/2021 3487390 32849 32915 8/18/2021 3487390 3276402 396449 32915 8/18/2021 358865 3657366 6880507 2085 8/18/2021 358865 3657366 6880507 3286 8/18/2021 358865 32545078 32 | 10193310 | 5110059 | 4473466 | | |
| 1971200 | 9024730 | | | | |
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| 78180 34091 31168 1 8/18/2021 3148655 1308267 1074309 3323 8/18/2021 1169785 542268 480817 622 8/18/2021 12648490 5614570 4705445 4610 8/18/2021 768360 357237 310727 269 8/18/2021 2244160 1083853 97912 655 8/18/2021 1956610 896275 801010 271 8/18/2021 12599705 6057182 5316248 1821 8/18/2021 2537125 1418742 1224169 747 8/18/2021 3487330 1731241 1418246 1002 8/18/2021 26036595 12734075 11388592 3528 8/18/2021 3340785 5998237 5539574 3235 8/18/2021 4391280 2013892 1650107 862 8/18/2021 4595885 8657366 6880507 2055 8/18/2021 4293790 2276402 | | | | 2101 | |
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| 1169785 542268 480817 622 8/18/2021 12648490 5614570 4705445 4610 8/18/2021 768360 357237 310727 269 8/18/2021 2244160 1083853 979312 655 8/18/2021 1956610 896275 801010 271 8/18/2021 12509705 6057182 5316248 1821 8/18/2021 2537125 1418742 1224169 747 8/18/2021 3487330 1731241 1418246 1002 8/18/2021 26036595 12734075 11388592 3528 8/18/2021 13340785 5998237 5539574 3235 8/18/2021 4391280 2013892 1651007 862 8/18/2021 4293790 2260087 2396449 2915 8/18/2021 4293790 2276402 1963871 362 8/18/2021 4293790 2276402 1963871 362 8/18/2021 5896135 254507 | 3148655 | | | 3323 | |
| 12648490 5614570 4705445 4610 8/18/2021 768360 357237 310727 269 8/18/2021 2244160 1083853 979312 655 8/18/2021 1956610 896275 801010 271 8/18/2021 12509705 6057182 5316248 1821 8/18/2021 2537125 1418742 1224169 747 8/18/2021 3487330 1731241 1418246 1002 8/18/2021 26036595 12734075 11388592 3528 8/18/2021 13340785 5998237 5539574 3235 8/18/2021 4391280 2013892 1650107 862 8/18/2021 4391280 2013892 1650107 862 8/18/2021 4293790 2276402 1963871 362 8/18/2021 4293790 2276402 1963871 362 8/18/2021 4595075 737115 666007 331 8/18/2021 4596135 2545078 | 1169785 | | 480817 | 622 | |
| 768360 357237 310727 269 8/18/2021 2244160 1083853 979312 655 8/18/2021 1956610 896275 801010 271 8/18/2021 12509705 6057182 5316248 1821 8/18/2021 2537125 1418742 1224169 747 8/18/2021 3487330 1731241 1418246 1002 8/18/2021 26036595 12734075 11388592 3528 8/18/2021 13340785 5998237 5539574 3235 8/18/2021 4391280 2013892 1650107 862 8/18/2021 5966315 2620087 2396449 2915 8/18/2021 16958855 8657366 6880507 2085 8/18/2021 4293790 2276402 1963871 362 8/18/2021 5896135 2545078 2151795 2286 8/18/2021 589635 2545078 2151795 2286 8/18/2021 7187620 323 | 12648490 | 5614570 | 4705445 | 4610 | |
| 2244160 1083853 979312 655 8/18/2021 1956610 896275 801010 271 8/18/2021 12509705 6057182 5316248 1821 8/18/2021 2537125 1418742 1224169 747 8/18/2021 3487330 1731241 1418246 1002 8/18/2021 26036595 12734075 11388592 3528 8/18/2021 13340785 5998237 5539574 3235 8/18/2021 4391280 2013892 1650107 862 8/18/2021 5966315 2620087 2396449 2915 8/18/2021 16958855 8657366 6880507 2085 8/18/2021 4293790 2276402 1963871 362 8/18/2021 1595075 737115 666007 331 8/18/2021 1027815 483540 424575 179 8/18/2021 7187620 3231178 2748390 3482 8/18/2021 3518080 1725 | 768360 | 357237 | 310727 | 269 | |
| 1956610 896275 801010 271 8/18/2021 12509705 6057182 5316248 1821 8/18/2021 2537125 1418742 1224169 747 8/18/2021 3487330 1731241 1418246 1002 8/18/2021 26036595 12734075 11388592 3528 8/18/2021 13340785 5998237 5539574 3235 8/18/2021 4391280 2013892 1650107 862 8/18/2021 5966315 2620087 2396449 2915 8/18/2021 16958855 8657366 6880507 2085 8/18/2021 4293790 2276402 1963871 362 8/18/2021 5896135 2545078 2151795 2286 8/18/2021 5896135 2545078 2151795 2286 8/18/2021 1027815 483540 424575 179 8/18/2021 7187620 3231178 2748390 3482 8/18/2021 3518080 <td< td=""><td>2244160</td><td>1083853</td><td>979312</td><td>655</td><td></td></td<> | 2244160 | 1083853 | 979312 | 655 | |
| 12509705 6057182 5316248 1821 8/18/2021 2537125 1418742 1224169 747 8/18/2021 3487330 1731241 1418246 1002 8/18/2021 26036595 12734075 11388592 3528 8/18/2021 13340785 5998237 5539574 3235 8/18/2021 4391280 2013892 1650107 862 8/18/2021 5966315 2620087 2396449 2915 8/18/2021 16958855 8657366 6880507 2085 8/18/2021 4293790 2276402 1963871 362 8/18/2021 1595075 737115 666007 331 8/18/2021 5896135 2545078 2151795 2286 8/18/2021 1027815 483540 424575 179 8/18/2021 7187620 3231178 2748390 3482 8/18/2021 35488695 15914369 13179043 25497 8/18/2021 3518080 | 1956610 | 896275 | 801010 | 271 | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 12509705 | 6057182 | 5316248 | 1821 | |
| 3487330 1731241 1418246 1002 8/18/2021 26036595 12734075 11388592 3528 8/18/2021 13340785 5998237 5539574 3235 8/18/2021 4391280 2013892 1650107 862 8/18/2021 5966315 2620087 2396449 2915 8/18/2021 16958855 8657366 6880507 2085 8/18/2021 4293790 2276402 1963871 362 8/18/2021 1595075 737115 666007 331 8/18/2021 5896135 2545078 2151795 2286 8/18/2021 1027815 483540 424575 179 8/18/2021 7187620 3231178 2748390 3482 8/18/2021 35488695 15914369 13179043 25497 8/18/2021 3518080 1725826 1469618 963 8/18/2021 11235045 5447452 4766294 2244 8/18/2021 960790 469165 418708 357 8/18/2021 10004725 <td< td=""><td>2537125</td><td>1418742</td><td>1224169</td><td></td><td></td></td<> | 2537125 | 1418742 | 1224169 | | |
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| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 5966315 | 2620087 | 2396449 | 2915 | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 16958855 | 8657366 | 6880507 | 2085 | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 4293790 | 2276402 | 1963871 | 362 | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 1595075 | 737115 | 666007 | 331 | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 5896135 | 2545078 | 2151795 | 2286 | 8/18/2021 |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 1027815 | 483540 | 424575 | 179 | 8/18/2021 |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 7187620 | 3231178 | 2748390 | 3482 | 8/18/2021 |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 35488695 | 15914369 | 13179043 | | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 3518080 | 1725826 | 1469618 | 963 | 8/18/2021 |
| 960790 469165 418708 357 8/18/2021 10004725 5018204 4484046 2378 8/18/2021 6658295 3334077 3068121 2025 8/18/2021 2142795 833962 704774 1482 8/18/2021 | 11235045 | 5447452 | 4766294 | 2244 | |
| 10004725 5018204 4484046 2378 8/18/2021 6658295 3334077 3068121 2025 8/18/2021 2142795 833962 704774 1482 8/18/2021 | 960790 | 469165 | 418708 | 357 | |
| 2142795 833962 704774 1482 8/18/2021 | 10004725 | 5018204 | 4484046 | 2378 | |
| | 6658295 | 3334077 | 3068121 | 2025 | 8/18/2021 |
| | 2142795 | 833962 | 704774 | 1482 | 8/18/2021 |
| 2000 21000 | 550145 | 251766 | 217399 | 412 | 8/18/2021 |

| state | actuals.vaccinesDistributed | actuals.vaccinationsInitiated | actuals.vaccinationsCompleted | actuals.newCases | lastUpdatedDate |
|-------|-----------------------------|-------------------------------|-------------------------------|------------------|-----------------|
| MS | 3148655 | 1308267 | 1074309 | 3323 | 8/18/2021 |
| TN | 7187620 | 3231178 | 2748390 | 3482 | 8/18/2021 |