

Supplementary Table S1.: Testicular Cancer Rates USA by State and Year 2001 – 2017.

State	Year																
	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Alaska	3.9	4.3	3.3	3	3.5	3.2	2.4	3.2	2.8	3.9	3.5	3	3.1	4.1	4.3	3.1	2.7
Alabama	2	2.2	1.9	2.4	2.4	2	2.3	2.7	2.4	2.5	2	2.1	2.2	2.6	2.1	2	2.1
Arkansas	2.2	1.8	2.8	2.1	2.3	1.9	2.3	2.1	2.5	2.4	2.1	2.6	2.5	3.1	2.3	2.9	2.7
Arizona	2.6	2.7	2.8	2.8	2.9	3.2	2.7	3	3.1	2.8	3	2.9	2.4	2.8	2.9	2.8	2.8
California	2.7	2.6	2.7	2.8	2.8	2.9	2.9	3	3	3.1	2.9	3	3.1	3.2	3.1	3.2	3.2
Colorado	3	3.1	3.4	3.2	3.1	2.9	3.2	3.3	3.2	3.3	2.8	3	2.9	3.1	3.2	2.8	3
Connecticut	2.8	3.3	3	3.5	3	3.2	3.7	3	3.4	2.9	3.3	3.4	3.5	3.7	2.4	3.7	3.3
Delaware	2.9	2	2.5	2.65	2.8	2.5	2.8	2.5	3	3	2	2.9	3.8	2.6	2.6	2.5	1.8
Florida	2.8	2.6	2.8	2.5	2.8	2.9	2.6	2.7	2.6	2.4	2.4	2.7	2.6	2.4	2.4	2.7	2.4
Georgia	2.2	2.2	2.2	2.1	1.9	2.1	2.1	2.3	2.1	2	2.1	2	2.1	2.2	2.1	2.4	2.2
Hawaii	2.5	2.1	2.3	2.3	3.3	2.6	2.9	3.4	3.5	2.6	2.3	2.8	2.7	3.3	3.3	3.4	2.7
Idaho	2.9	3	3.5	4.3	3.9	3.2	3.1	3.4	3.4	2.9	4.5	3	2.9	4.3	4	3.9	3
Illinois	2.7	2.8	2.7	2.8	2.7	2.9	2.7	3	2.9	3.1	2.8	3.1	3.1	3	3.3	3.4	3.1
Indiana	3.1	2.6	3.2	2.8	2.5	2.7	3	2.8	2.7	2.9	2.9	2.6	3.3	3.2	3.4	3.2	2.5
Iowa	3.9	3.3	3.3	3.5	3.8	3.3	3.3	3.4	3.5	3.9	3.9	3.2	3.5	3.6	4.1	3.6	4
Kansas	2.6	2.3	2.7	2.8	3.4	2.9	3.1	3.2	3.5	2.9	2.8	3.9	2.9	3.7	3.5	3.1	3.1
Kentucky	2.8	2.8	2.3	2.4	2.8	2.7	2.3	3	2.7	3.1	3	2.6	2.9	3	2.8	3	3
Louisiana	2.4	2.2	2.3	2.6	2.2	2.1	2.2	2.2	2.5	2.3	2	2.7	2.3	3	2.2	2.3	2.4
Massachusetts	3.1	3.5	3.2	3	3.6	3.2	3.4	3.1	3.5	2.8	3.4	3.4	3.4	3.3	3.1	2.8	2.7
Maryland	2.2	2.6	2.5	1.9	2.2	2.1	2.3	2.3	2.2	2.1	2.3	2.6	2.4	2.3	2.4	2.3	2.3
Maine	3.1	3.2	3.6	3.1	3.8	3.1	3.1	3.5	3.1	4.3	3.5	3.2	3.8	3	3.6	3.8	4.2
Michigan	3	2.9	2.9	3.2	3.2	2.9	3.1	2.8	2.6	3.2	3	3	3.3	3	3	2.9	3.1
Minnesota	3.8	3.8	3.8	3.5	4	3	3.9	3.3	4	3.4	3.6	3.7	3.7	3.4	3.7	3.5	3.5
Missouri	3	2.6	2.5	2.7	2.8	2.6	2.2	2.7	2.7	2.8	2.5	2.6	3	2.4	3.2	2.8	2.8

Mississippi	1.7	1.5	1.3	2.2	2	1.8	2	1.9	1.5	2.3	1.6	2.1	1.7	2.1	1.8	2.1	2.4
Montana	2.8	3.7	3.8	2.9	3.7	3	2.7	3.7	2.4	5.6	3.8	4.1	3.4	3.6	4.3	3.8	3.5
North Carolina	2.7	2.3	2.4	2.6	2.5	2.8	2.6	2.5	2.8	2.3	2.5	2.4	2.6	2.3	2.7	2.9	2.6
North Dakota	3.7	3.1	2.7	4	2.9	3.4	2.9	3.2	5	3.7	2.6	3.1	3.6	4.2	3.4	4.4	3.8
Nebraska	4	2.6	3.7	3.3	3.2	3.2	3.9	3.3	3.4	3.3	3.4	3.6	3.6	4.5	3.2	4.1	3.3
New Hampshire	3.7	3.2	4	4.1	3.1	4.3	3.8	3.8	4.1	4.1	3.8	4.3	4.7	2.4	3.7	4.1	3.9
New Jersey	3.2	3.2	3	3.2	2.6	2.9	3	2.8	3	3	3.1	3	3.2	2.9	3.1	3	3.1
New Mexico	3.2	3.5	2.8	2.6	3.5	3.3	3.1	3.5	3	3.3	3.4	2.9	3.8	3.5	3.4	3.2	3.3
Nevada	2.4	2	3.3	2.6	2.7	2.8	2.4	2.4	2.8	2.5	2.4	2.7	2.3	2.7	2.3	3.5	3.5
New York	2.6	2.5	2.8	2.8	2.9	2.8	3	3.1	2.9	3	3	3.2	2.9	3	2.9	3.1	3.1
Ohio	3	2.9	2.7	3	3.4	2.7	2.9	2.8	2.9	2.6	3	2.8	2.8	3.2	3.2	2.8	2.7
Oklahoma	2.3	2.4	3.2	2.6	2.7	2.6	2.5	2.8	2.7	2.5	3	2.3	2.8	3.1	2.6	3.2	2.3
Oregon	4.1	3.7	3.5	3.4	3.3	3.2	3.8	3.5	3.1	3.2	3.6	3.2	3.7	3.9	3.6	3.3	3.2
Pennsylvania	3.2	3.3	2.9	3.6	3.2	3.3	3	3.4	3.4	3.8	3.3	3.5	3.4	3.2	3.4	3.6	2.9
Rhode Island	3	2.9	2.4	3.8	3.4	1.9	3.7	3.9	2.8	3.2	4.1	4.1	3.6	1.9	4.3	2.8	3.1
South Carolina	2	1.8	2.4	1.8	2.1	2.3	1.9	2.3	2	2.1	2.3	2.3	2.1	2.2	2.1	2.2	2
South Dakota	3.5	3.7	3.7	2.6	4.4	2.8	2.6	3.8	2.5	3.4	2.6	3.3	4	4.4	3.2	2.5	2.4
Tennessee	2	1.9	2.1	2.3	2.9	2.4	2.5	2.6	2.3	2.4	2.6	2.5	2.9	2.8	2.5	2.9	3
Texas	2.5	2.5	2.7	2.6	2.6	2.7	2.5	2.7	2.5	2.5	2.4	2.5	2.7	2.6	2.6	2.7	2.8
Utah	2.8	4	4.1	4.4	3.1	3	4.4	3.7	3.7	3.7	3.4	3.7	3.7	3.4	3.8	3.9	4.4
Virginia	2	2.2	2.3	2.5	2.9	2.5	2.5	2.5	2.2	2.5	2.2	2	2.2	2.2	2.1	2.3	2.3
Vermont	4.8	3.1	2.8	4.8	3.9	3	3.6	3.5	3.9	2.8	3.8	4.25	4.7	3.6	4.05	4.5	3.8
Washington	3.4	3.3	3.2	3.3	3.6	3.8	3.2	3.2	3.8	3.4	3.5	3.7	3.4	4	3.1	3.6	3.2
Wisconsin	3.3	3.5	3.5	3.7	3.7	3.6	3.7	3.3	3.5	3.9	3.6	3.8	3.3	3.7	3.7	3.9	3.4
West Virginia	2.1	2.4	3	2.5	3	2.6	3.1	2.9	3.2	3.5	2.8	3.6	2.9	2.8	3	2.7	2.7
Wyoming	4.3	4.23	4.15	4.08	4	3.7	3.4	3.4	3.4	3.4	4.2	3	5.7	3.3	3.5	4.1	4.4

Supplementary Table S1. State based CDC age-adjusted testicular cancer rates 2001-2017 as raw data with temporally kriged data marked in bold and red typeface.

Supplementary Table S2.: States in Each Cannabis Use Quintile

State	Quintile 1	Quintile 2	Quintile 3	Quintile 4	Quintile 5
Alabama	14	1	0	0	0
Alaska	0	0	0	0	15
Arizona	0	3	7	5	0
Arkansas	0	6	9	0	0
California	0	0	0	15	0
Colorado	0	0	0	1	14
Connecticut	0	0	2	12	1
Delaware	0	0	6	9	0
Florida	0	0	14	1	0
Georgia	2	3	8	2	0
Hawaii	0	1	4	8	2
Idaho	6	9	0	0	0
Illinois	0	2	13	0	0
Indiana	0	1	2	12	0
Iowa	14	1	0	0	0
Kansas	4	11	0	0	0
Kentucky	0	7	7	1	0
Louisiana	7	8	0	0	0
Maine	0	0	0	0	15
Maryland	2	3	1	9	0
Massachusetts	0	0	0	3	12
Michigan	0	0	0	15	0
Minnesota	0	3	7	4	1
Mississippi	14	1	0	0	0
Missouri	0	0	14	1	0
Montana	0	0	0	0	15
Nebraska	9	4	2	0	0
Nevada	0	0	4	9	2
New Hampshire	0	0	0	0	15
New Jersey	8	7	0	0	0
New Mexico	0	0	0	15	0
New York	0	0	0	15	0
North Carolina	0	11	4	0	0
North Dakota	15	0	0	0	0
Ohio	0	0	13	2	0
Oklahoma	10	4	1	0	0
Oregon	0	0	0	0	15
Pennsylvania	0	2	12	1	0
Rhode Island	0	0	0	0	15
South Carolina	4	6	5	0	0

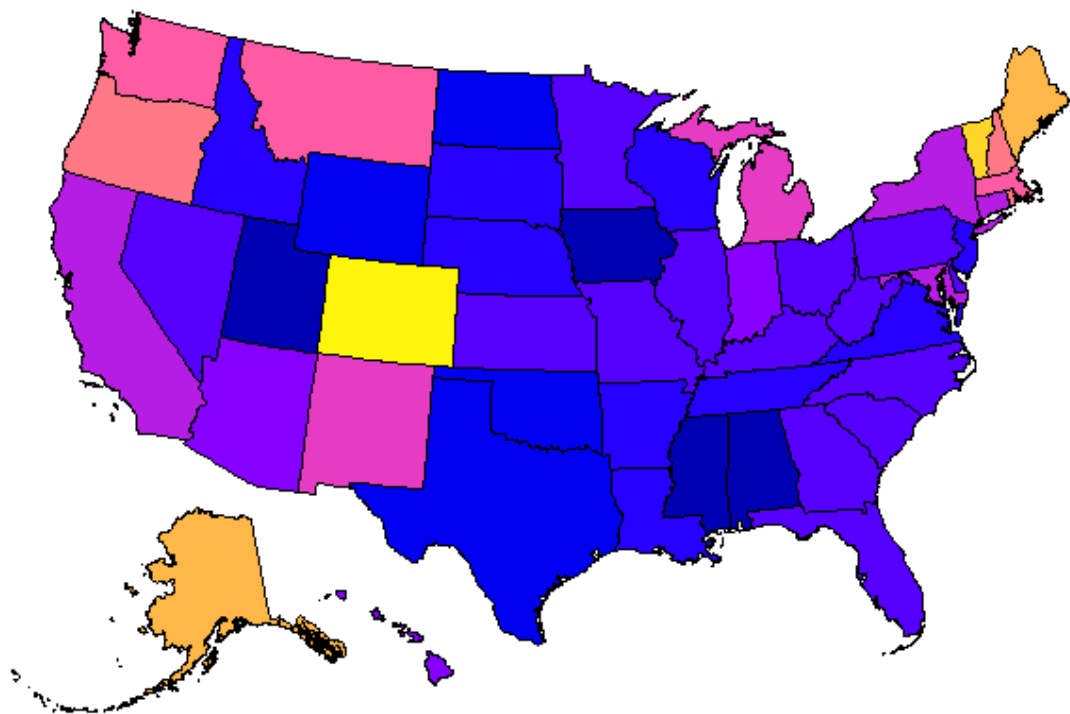
South Dakota	7	7	1	0	0
Tennessee	1	8	4	2	0
Texas	15	0	0	0	0
Utah	15	0	0	0	0
Vermont	0	0	0	0	15
Virginia	2	8	4	1	0
Washington	0	0	0	2	13
West Virginia	1	12	2	0	0
Wisconsin	0	14	1	0	0
Wyoming	6	6	2	1	0

Supplementary Table S2. State composition of each quintile.

Figure S1 - States in US Testicular Cancer Dataset

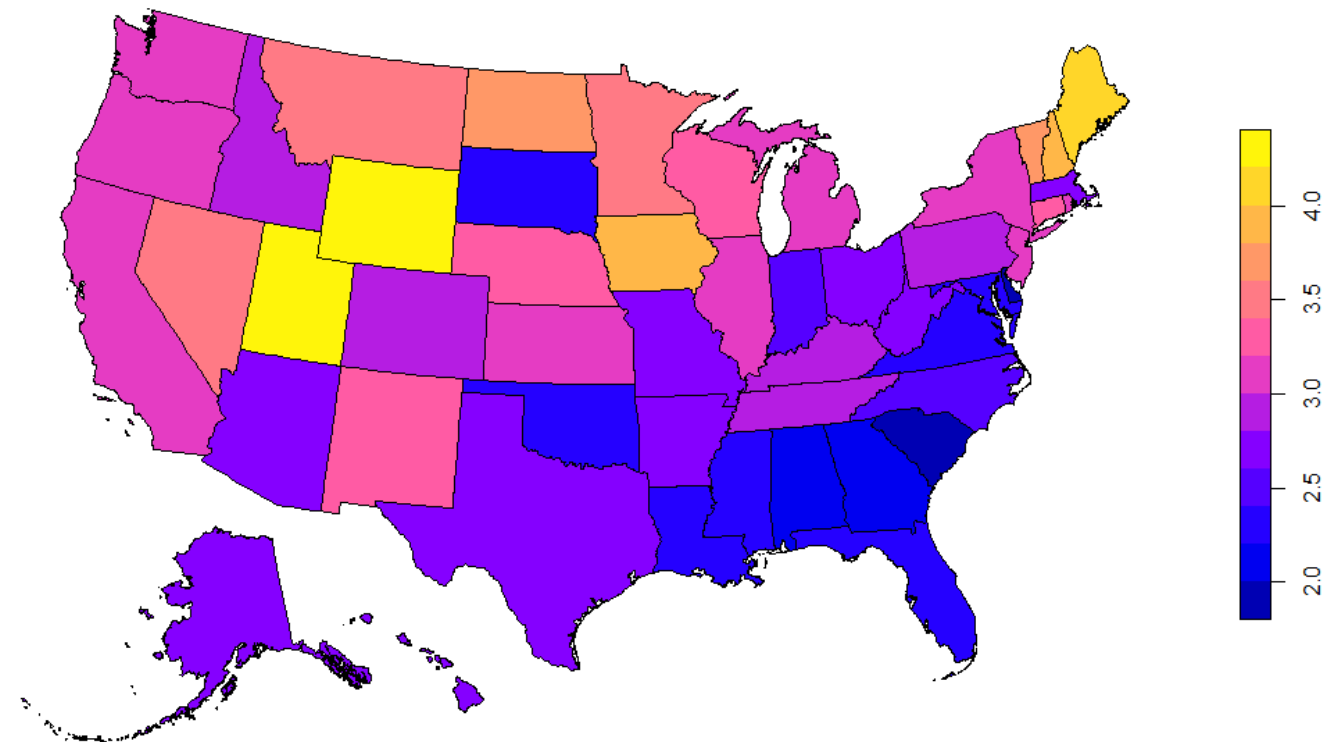
A

Last Month Cannabis Use 2017



B

US Testicular Cancer Rates 2017



Supplementary Figure Legends

Supplementary Figure S1.: Map of states with available data. (A) Last month cannabis use and (B) testicular cancer incidence rates across USA by state for 2017.