Submission1-HW3

Research Methods, Spring 2024

Caroline Hansen

https://github.com/carolinezhansen/tobacco/tree/main

Answers for Homework 3: Submission 1

Problem 1

1. Present a bar graph showing the proportion of states with a change in their cigarette tax in each year from 1970 to 1985.

[,1] [1,] 0.7 [2,] 1.9 [3,] 3.1 [4,]4.3 [5,] 5.5 [6,] 6.7 [7,] 7.9 [8,] 9.1 [9,] 10.3 [10,] 11.5 [11,] 12.7 [12,] 13.9 [13,] 15.1 [14,] 16.3 [15,] 17.5 [16,] 18.7 [17,] 19.9 [18,] 21.1 [19,] 22.3 [20,] 23.5 [21,] 24.7 [22,] 25.9 [23,] 27.1 [24,] 28.3 [25,] 29.5 [26,] 30.7 [27,] 31.9 [28,] 33.1 [29,] 34.3 [30,] 35.5 [31,] 36.7 [32,] 37.9 [33,] 39.1 [34,] 40.3 [35,] 41.5 [36,] 42.7

- [37,] 43.9
- [38,] 45.1
- [39,] 46.3
- [40,] 47.5
- [41,] 48.7
- [42,] 49.9
- [43,] 51.1
- [44,] 52.3
- [45,] 53.5
- [46,] 54.7
- [47,] 55.9
- [48,] 57.1
- [49,] 58.3

Problem 2

2. Plot on a single graph the average tax (in 2012 dollars) on cigarettes and the average price of a pack of cigarettes from 1970 to 2018.

Warning: Use of `final.data\$tax_percent` is discouraged. i Use `tax_percent` instead.

Warning: Use of `final.data\$cost_per_pack` is discouraged. i Use `cost_per_pack` instead.

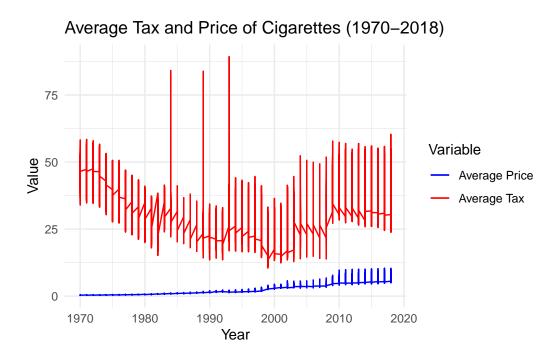


Figure 1: Average Tax and Average Price of Cigarettes from 1970 to 2018