

Socio-Economic Impacts of State Tax Policy: A Case Study of the Nebraska Gas Tax

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Introduction Case Study Methods Results Conclusions Q&A

Introduction: SEI Considerations in State Tax Policy



Guiding Questions

- Many different stakeholders in the economy
- Wealth and income levels linked to race, gender, geography (rural vs urban), education
- Do policies benefit all income levels?
- Do they increase or reduce income inequality?
- Do all racial and ethnic groups benefit from policies?
- Are we benefiting or disadvantaging those without higher education?

Examples

- Examples of taxes where SEI considerations are involved:
- Goods tax vs services tax
- Flat tax vs progressive tax
- Capital gains vs income tax
- Tax expenditures: who benefits for political reasons
- Will be looking at SEI impacts of an excise tax in Nebraska

Is everybody getting a fair shot at the "American dream"?



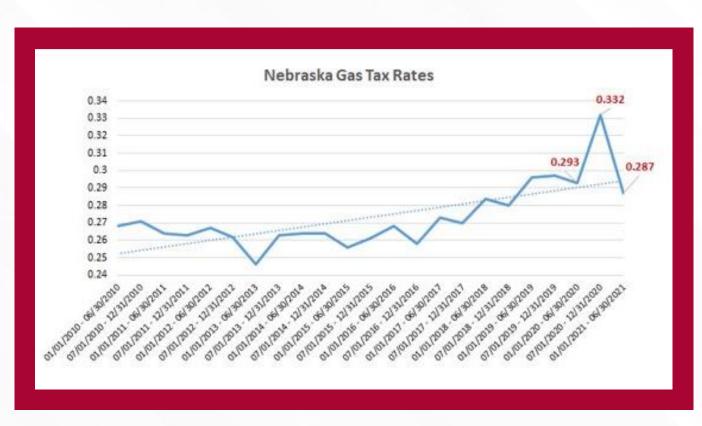
Introduction Case Study Methods Results Conclusions Q&A

Case Study



State of Nebraska's COVID-Induced Temporary Gas Tax Increase

- NE DOT raised state gas tax during 7/1-12/31/2020 to support falling revenues due to COVID-induced drop in gas prices and demand
- Variable tax part of state law triggered to keep revenues in balance with the roads budget
- Nebraska's gas tax is based on:
- (1) A fixed rate set by the state legislature
- (2) A wholesale tax rate dependent on the price of fuel
- (3) A variable tax rate to pay for transportation spending budgeted by legislature



- Driving patterns returned more to normal in summer
 2021, which the current gas tax level reflects
- Current legislation on gas tax, LB329, proposes minimum taxable price of gasoline to be \$2.42
- Intended to increase state
 government revenues
 in response to COVID-related
 economic slowdowns,
 including sharply falling gas
 prices and decreased economic
 activity
 - Bill remains in committee

what does **REMI** say? sm



Introduction Case Study Methods Results Conclusions Q&A

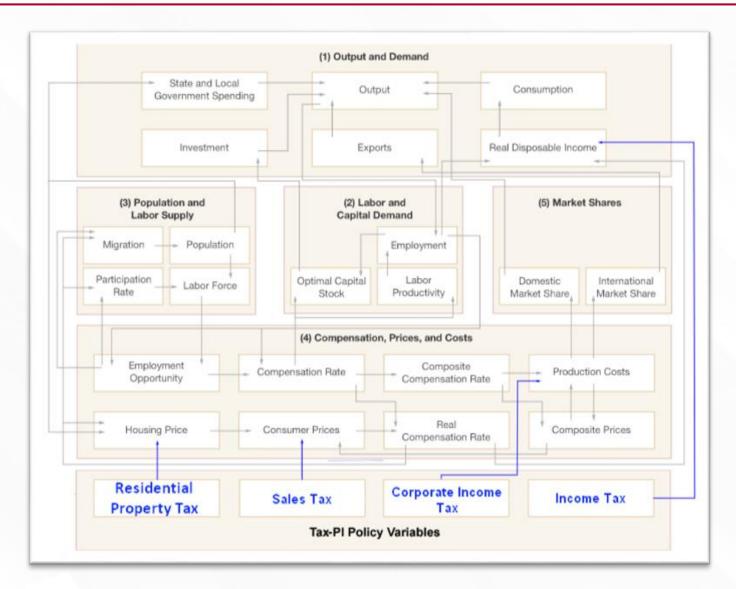


State of Nebraska's COVID-Induced Temporary Gas Tax Increase

- Model
 REMI Tax-PI/SEI model of Nebraska
- Scenario
 COVID drove up Nebraska's gas tax to a record high
- Input Increase Nebraska gas tax rate from 0.293 to 0.332
- Period
 July 1, 2020 Dec 31, 2020

Model Overview: REMI Tax-PI/SEI





Socio-Economic Indicators













Introduction Case Study Methods Results Conclusions Q&A





Economic Impacts		
Results Variable	Unit	2020
Total Employment	Individuals (Jobs)	-172
Gross Domestic Product	Millions of Current Dollars	-13.7
Output	Millions of Current Dollars	-23.2
Personal Income	Millions of Current Dollars	-10.5
Disposable Personal Income	Millions of Current Dollars	-9.2
Real Disposable Personal Income	Percent	-0.009%
Real Disposable Personal Income per Capita	Percent	-0.002%
PCE-Price Index	Percent	0.032%

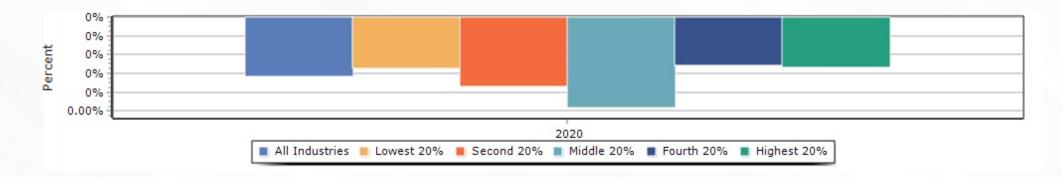




Fiscal Impacts		
Results Variable	Unit	FY2021
Total	Thousands of Current Dollars	24,681.0
Gas Taxes	Thousands of Current Dollars	25,053.0
General Sales and Gross Receipts Taxes	Thousands of Current Dollars	-116.0
Individual Income Taxes	Thousands of Current Dollars	-198.0
Corporations Net Income Taxes	Thousands of Current Dollars	-30.0
Other Taxes	Thousands of Current Dollars	-28.0

Results: SEI, Compensation Rate (Weighted by Baseline Employment)

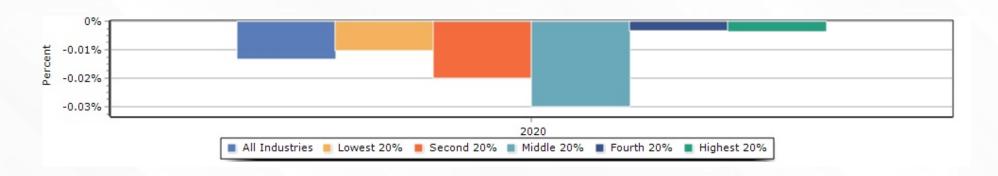




Compensation Rate (Weighted by Baseline Employment)			
Industry	Units	2020	
All Industries	Percent	-0.00063%	
Lowest 20%	Percent	-0.00055%	
Second 20%	Percent	-0.00074%	
Middle 20%	Percent	-0.00096%	
Fourth 20%	Percent	-0.00052%	
Highest 20%	Percent	-0.00053%	
Compensation Inequality Coefficient			
Region	Unit	2020	
Nebraska	Percent	0.001%	

Results: SEI, Employment by Industry Quintile

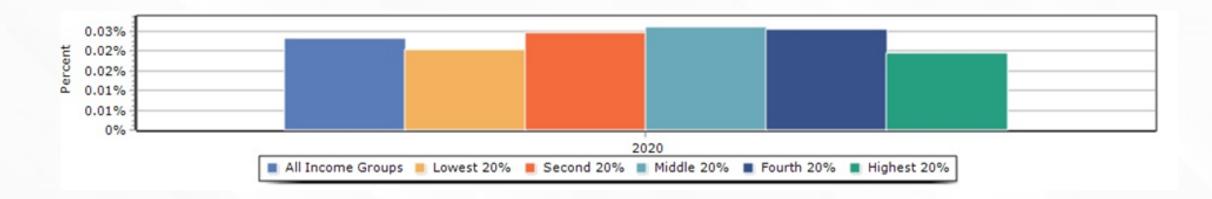




Employment by Industry Quintile			
Industry	ustry Units 2020		
All Industries	Percent	-0.013%	
Lowest 20%	Percent	-0.010%	
Second 20%	Percent	-0.020%	
Middle 20%	Percent	-0.030%	
Fourth 20%	Percent	-0.003%	
Highest 20%	Percent	-0.004%	

Results: SEI, Consumption Price by Income Quintile

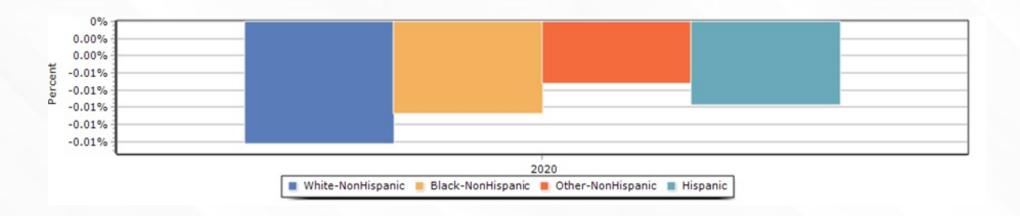




Consumption Price by Income Quintile			
Detail	Units	2020	
All Income Groups	Percent	0.023%	
Lowest 20%	Percent	0.020%	
Second 20%	Percent	0.025%	
Middle 20%	Percent	0.026%	
Fourth 20%	Percent	0.026%	
Highest 20%	Percent	0.019%	

Results: SEI, Employment by Race/Ethnicity

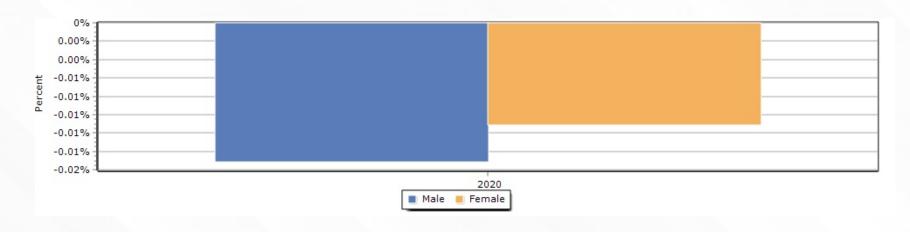




Employment by Race/Ethnicity			
Race	Race Units 2020		
White-NonHispanic	Individuals	-148	
Black-NonHispanic	Individuals	-6	
Other-NonHispanic	Individuals	-5	
Hispanic	Individuals	-14	

Results: SEI, Employment by Gender

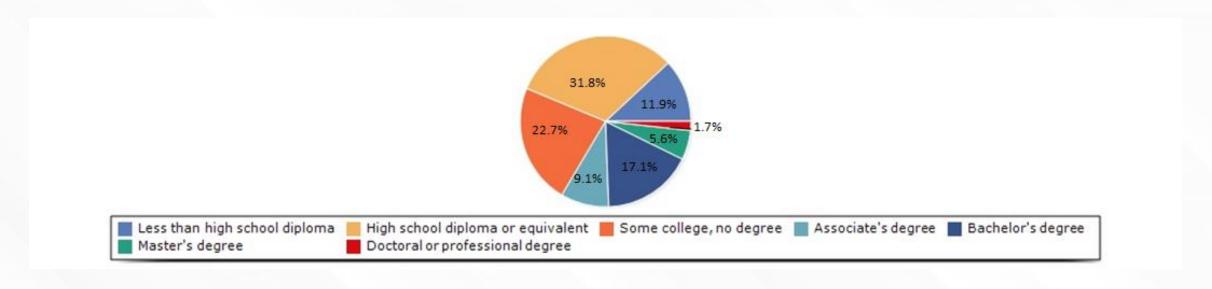




Employment by Gender		
Gender	Units 2020	
Male	Individuals	-105
Female Individuals -67		-67

Results: SEI, Employment by Detailed Educational Attainment REMI

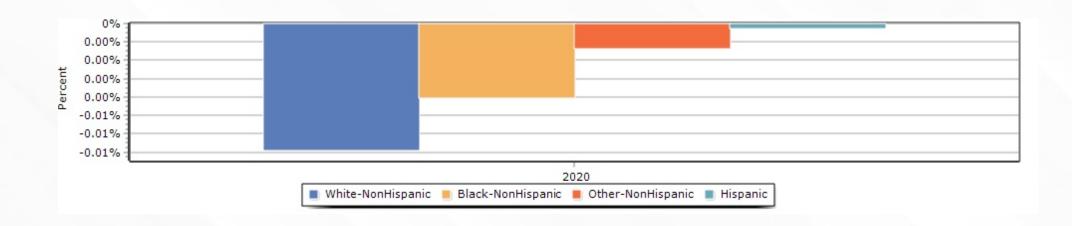




Employment by Detailed Educational Attainment			
Category	Units	2020	
Less than high school diploma	Individuals (Jobs)	-21	
High school diploma or equivalent	Individuals (Jobs)	-55	
Some college, no degree	Individuals (Jobs)	-39	
Associate's degree	Individuals (Jobs)	-16	
Bachelor's degree	Individuals (Jobs)	-30	
Master's degree	Individuals (Jobs)	-10	
Doctoral or professional degree	Individuals (Jobs)	-3	

Results: SEI, Labor Force Participation Rate by Race/Ethnicity REMI

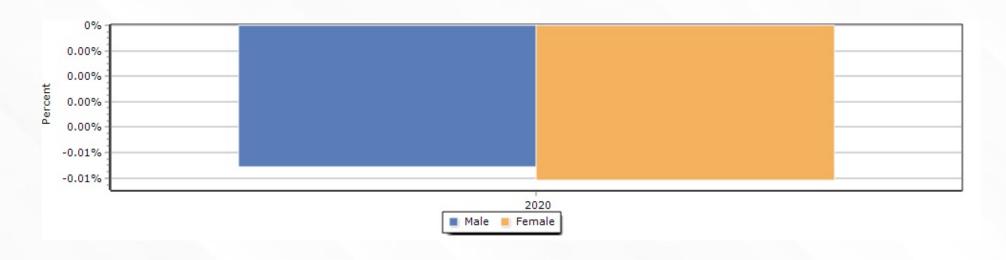




Labor Force Participation Rate by Race/Ethnicity			
Race	Units	2020	
White-NonHispanic	Percent	-0.007%	
Black-NonHispanic	Percent	-0.004%	
Other-NonHispanic	Percent	-0.001%	
Hispanic	Percent	0.000%	

Results: SEI, Labor Force Participation Rate by Gender





Labor Force Participation Rate by Gender		
Gender	Units	2020
Male	Percent	-0.0056%
Female	Percent	-0.0061%
Unemployment Rate		
Region	Unit	2020
Nebraska	Percent	0.017%
Region Unit 2020		



Introduction Case Study Methods Results Conclusions

Q&A

Conclusions



- Increase in Nebraska gas tax resulted in small losses to total employment, GDP, output, and personal income
- Recouped state revenues, with fairly minimal dynamic revenue losses

- Compensation rates were mildly affected
- Employment & compensation losses were relatively higher in the middle industry quintile
- Per capita income decreased, unemployment rate increased

- Consumption price index rose, driven by the higher gas prices
- Middle-income quintiles were relatively more impacted than lowest and highest quintiles
- Based on expenditure patterns by quintile

- Greatest employment losses to the white non-Hispanic & male demographic groups
- Individuals without university degrees experienced more job losses than those with higher degrees
- Labor force participation decreased relatively more for the white non-Hispanic group, with males and females seeing relatively even decreases



Thank you! Questions?

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