

Anticipated Impacts

	Vehicle Fees	Fuel Fees
Vehicle Ownership. Consumers change the number of vehicles they own.	√	
Vehicle Type. Motorists chooses different vehicle (more fuel efficient, alternative fuel, etc.)	√	√
Mode Shift. Traveler shifts to another mode.		√
Destination Change. Motorist shifts trips to alternative destination		√
Trip Generation. People take fewer total trips (including consolidating trips)		√

Travel in Iowa

Table 1. Miles Traveled

	miles/day	miles/month	miles/year
State Average	33	981	11,932
Min	24	716	8,713
Max	63	1,895	23,054

Table 2. Fuel Efficiency (Miles per gallon)

	MPG
Fleet Average	25
Min (Lt Truck)	21
Max (Car)	29

Fuel Usage

Table 3. Fuel Used (gallons per year per vehicle)

		Fuel Used / Vehicle		
		State Average	Min	Max
Miles per gallon	Fleet Average	477	349	922
	Max	411	300	795
	Min	568	415	1,098

Fuel Cost

Table 4. Gasoline Prices (dollars)

	Regular	Premium
Oct 16, 2007	2.69	2.96
Last Week	2.74	3.02
Last Year	2.11	2.29

Table 5. Gasoline Cost (dollars per year per vehicle)

		Gasoline Cost / Vehicle		
		State Average	Min	Max
Miles per gallon	Fleet Average	\$ 1,413	\$ 1,032	\$ 2,730
	Max	\$ 1,218	\$ 889	\$ 2,353
	Min	\$ 1,682	\$ 1,228	\$ 3,250

Fuel Tax (Existing rate \$0.207)

Table 6. State Fuel Tax (dollars per year per vehicle)

		State Fuel Tax / Vehicle Vehicle Miles Traveled / Vehicle		
		State Average	Min	Max
Miles per gallon	Fleet Average	\$ 99	\$ 72	\$ 191
	Max	\$ 85	\$ 62	\$ 165
	Min	\$ 118	\$ 86	\$ 227

Fuel Tax (Hypothetical \$0.03 rate increase)

Table 7. State Fuel Tax (dollars per year per vehicle)

		State Fuel Tax / Vehicle Vehicle Miles Traveled / Vehicle		
		State Average	Min	Max
Miles per gallon	Fleet Average	\$ 113	\$ 83	\$ 219
	Min	\$ 135	\$ 98	\$ 260
	Max	\$ 98	\$ 71	\$ 188

Table 8. Increase in State Fuel Tax (dollars per year per vehicle)

		Vehicle Miles Traveled / Vehicle State		
		Average	Min	Max
Miles per gallon	Fleet Average	\$ 14	\$ 10	\$ 28
	Max	\$ 12	\$ 9	\$ 24
	Min	\$ 17	\$ 12	\$ 33

Anticipated Reduction in Fuel Use

Table 9. Short-run Decrease (0.034% to 0.077% decrease for each 1% increase in gas prices)

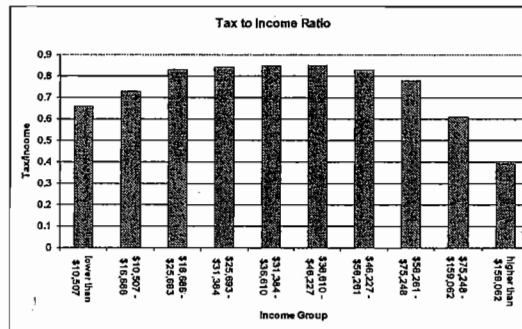
Miles per gallon	Fleet Average	Change in Fuel Used / Vehicle State		
		Average	Min	Max
		16 - 37	12 - 27	31 - 71
	Max	14 - 32	10 - 23	27 - 61
	Min	19 - 44	14 - 32	37 - 85

Impact by Income Groups

Table 10. Tax to Income Ratio*

	Tax/Income
1 lower than \$10,507	0.66
2 \$10,507 - \$16,686	0.73
3 \$16,686 - \$25,693	0.83
4 \$25,693 - \$31,384	0.84
5 \$31,384 - \$36,610	0.85
6 \$36,610 - \$46,227	0.85
7 \$46,227 - \$56,261	0.83
8 \$56,261 - \$75,248	0.78
9 \$75,248 - \$159,062	0.61
10 higher than \$159,062	0.39

Figure 1. Tax to Income Ratio



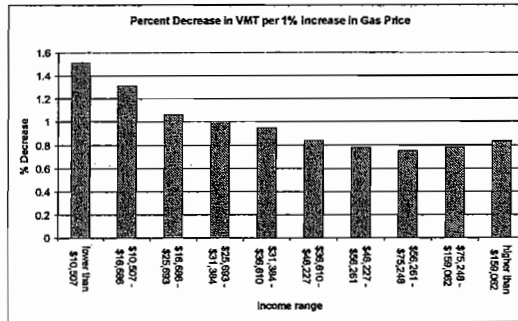
*National Level Data

Adjustment to Fuel Tax Increase

Table 11. Reduction in Vehicle Miles Traveled*

	VMT
1 lower than \$10,507	-1.51
2 \$10,507 - \$16,686	-1.31
3 \$16,686 - \$25,693	-1.06
4 \$25,693 - \$31,384	-1.01
5 \$31,384 - \$36,610	-0.95
6 \$36,610 - \$46,227	-0.84
7 \$46,227 - \$56,261	-0.78
8 \$56,261 - \$75,248	-0.75
9 \$75,248 - \$159,062	-0.78
10 higher than \$159,062	-0.83

Figure 2. Reduction in Vehicle Miles Traveled



*National Level Data

Adjustment to Fuel Tax Increase

Table 12. Hypothetical Value by Trip Purpose

