

**FUEL  
EFFICIENCY**

**VS**

**MANUAL  
TRANSMISSION**



# Manual Transmission Fuel Economy

**J. Y. Wong**



## **Manual Transmission Fuel Economy:**

*Fuel Economy Guide* ,2001      **Code of Federal Regulations** ,1997 Special edition of the Federal Register containing a codification of documents of general applicability and future effect with ancillaries      The Code of Federal Regulations of the United States of America ,1983 The Code of Federal Regulations is the codification of the general and permanent rules published in the Federal Register by the executive departments and agencies of the Federal Government      *New Motor Vehicle Emission Standards and Fuel Economy* United States. Congress. House. Committee on Interstate and Foreign Commerce. Subcommittee on Public Health and Environment,1974      **Automotive Fuel Economy Program** ,1992

**Automobile Fuel Efficiency Standards** United States. Congress. Senate. Committee on Energy and Natural Resources. Subcommittee on Energy Regulation and Conservation,1989      **International Automotive Fuel Economy Research Conference. First. Proceedings** ,1981      *Clean Air Act Oversight--1973* United States. Congress. House. Committee on Interstate and Foreign Commerce. Subcommittee on Public Health and Environment,1973      *The Consumer Response to Gasoline Price Changes* Kenneth Thomas Gillingham,2011 When gasoline prices rise people notice the news is filled with reports of pinched household budgets and politicians feeling pressure to do something to ameliorate the burden Yet raising the gasoline tax to internalize externalities is widely considered by economists to be among the most economic efficiency improving policies we could implement in the transportation sector This dissertation brings new evidence to bear on quantifying the responsiveness to changing gasoline prices both on the intensive margin i e how much to drive and the extensive margin i e what vehicles to buy I assemble a unique and extremely rich vehicle level dataset that includes all new vehicle registrations in California 2001 to 2009 and all of the mandatory smog check program odometer readings for 2002 to 2009 The full dataset exceeds 49 million observations Using this dataset I quantify the responsiveness to gasoline price changes on both margins as well as the heterogeneity in the responsiveness I develop a novel structural model of vehicle choice and subsequent utilization where consumer decisions are modeled in a dynamic setting that explicitly accounts for selection on unobserved driving preference at both the time of purchase and the time of driving This utility consistent model allows for the analysis of the welfare implications to consumers and government of a variety of different policies including gasoline taxes and feebates I find that consumers are responsive to changing gasoline prices in both vehicle choice and driving decisions with more responsiveness than in many recent studies in the literature I estimate a medium run i e roughly two year elasticity of fuel economy with respect to the price of gasoline for new vehicles around 0.1 for California a response that varies by whether the vehicle manufacturer faces a tightly binding fuel economy standard I estimate a medium run elasticity of driving with respect to the price of gasoline around 0.15 for new personal vehicles in the first six years Older vehicles are driven much less but tend to be more responsive with an elasticity of roughly 0.3 I find that the vehicle level responsiveness in driving to gasoline price changes varies by vehicle class income geographic and demographic groups I also

find that not including controls for economic conditions and not accounting for selection into different types of new vehicles based on unobserved driving preference tend to bias the elasticity of driving away from zero implying a greater responsiveness than the true responsiveness This is an important methodological point for much of the literature estimating similar elasticities ignores these two issues These results have significant policy implications for policies to reduce gasoline consumption and greenhouse gas emissions from transportation The relatively inelastic estimated responsiveness on both margins suggests that a gasoline tax policy may not lead to dramatic reductions in carbon dioxide emissions but is a relatively non distortionary policy instrument to raise revenue When the externalities of driving are considered an increased gasoline tax may not only be relatively non distortionary but even economic efficiency improving However I find that the welfare changes from an increased gasoline tax vary significantly across counties in California an important consideration for the political feasibility of the policy Finally I find suggestive evidence that the rebound effect of a policy that works only on the extensive margin such as a feebate or CAFE standards may be closer to zero than the elasticity of driving with respect to the price of gasoline This suggestive finding is particularly important for the analysis of the welfare effects of any policy that focuses entirely on the extensive margin *Transportation Energy Conservation Data Book*, 1981 **Transportation**

**Energy Conservation Data Book** G. Kulp, 1981 The data book represents an assembly and display of statistics that characterize transportation activity and presents data on other factors that influence transportation energy use The purpose of this publication is to present a large amount of relevant data in an easily retrievable and usable format with the statistical data shown in the form of tables and graphs Each of the major transportation modes highway air rail and pipeline is treated in separate chapters or sections although aggregate energy use and energy supply data for all modes are presented in Chap 1 The highway mode accounting for over 77% of total transportation energy consumption is dealt with in Chap 2 Topics in this chapter include vehicle stock characteristics fuel efficiency household vehicle ownership and use fleet automobiles buses and trucks Chap 3 presents data on each of the nonhighway modes air water pipeline and rail respectively The final chapter Chap 4 summarizes historical trends in transportation activity **Federal Register**, 1979-12 **Conservation and**

**Efficient Use of Energy** United States. Congress. House. Committee on Government Operations. Conservation and Natural Resources Subcommittee, 1973 *Theory of Ground Vehicles* J. Y. Wong, 2022-07-13 **THEORY OF GROUND VEHICLES** A leading and authoritative text for advancing ground vehicle mobility *Theory of Ground Vehicles* Fifth Edition presents updated and expanded coverage of the critical factors affecting the performance handling and ride essential to the development and design of road and off road vehicles Replacing internal combustion engines with zero emission powerplants in ground vehicles to eliminate greenhouse gas emissions for curbing climate change has received worldwide attention by both the vehicle industry and governmental agencies To enhance safety traffic flow and operating efficiency of road transport automated driving systems have been under active development With growing interest in the exploration of the Moon Mars

and beyond research in terramechanics for guiding the development of extraterrestrial rovers has been intensified In this new edition these and other topics of interest in the field of ground vehicle technology are explored and technical data are updated New features of this edition include Expanded coverage of the fundamentals of electric drives hybrid electric drives and fuel cell technology Introduction to the classification and operating principles of the automated driving system and cooperative driving automation Applications of terramechanics to guiding the development of extraterrestrial rovers Elaboration on the approach to achieving the optimal operating efficiency of all wheel drive off road vehicles Introduction to updated ISO Standards for evaluating vehicle ride An updated and comprehensive text and reference for both the educational and professional communities Theory of Ground Vehicles Fifth Edition will prove invaluable to aspiring and practicing engineers seeking to solve real world road and off road vehicle mobility problems     1973 Highway Legislation: Future Highway Needs United States. Congress. House. Committee on Public Works. Subcommittee on Transportation,1973 Considers H R 5573 H R 5138 S 502     *1973 Highway Legislation, Hearings Before the Subcommittee on Transportation ...*, 93-1 United States. Congress. House. Public Works,1973     **LightDuty Automotive Technology and Fuel Economy Trends19752005** ,     *Rulemaking Support Paper - Light Truck Fuel Economy Standards - Model Year 1981* ,1979     **Energy Efficiency in the Federal Government** United States. Congress. Office of Technology Assessment,1991     **Fuel Economy Issues** United States. Congress. House. Committee on Energy and Commerce. Subcommittee on Oversight and Investigations,1989

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