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KEY=FUEL - LIN DANIELA

MODEL YEAR 2007 FUEL ECONOMY GUIDE

EPA FUEL ECONOMY ESTIMATES

The Fuel Economy Guide is published by the U.S. Department of Energy as an aid to consumers considering the purchase of a new vehicle. The Guide lists estimates of miles per gallon (mpg) for each vehicle available for the new model year. These estimates are provided by the U.S. Environmental Protection Agency in compliance with Federal Law. By using this Guide, consumers can estimate the average yearly fuel cost for any vehicle. The Guide is intended to help consumers compare the fuel economy of similarly sized cars, light duty trucks and special purpose vehicles. The vehicles listed have been divided into three classes of cars, three classes of light duty trucks, and three classes of special purpose vehicles.

FUEL ECONOMY GUIDE

MODEL YEAR 2007

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FUEL ECONOMY GUIDE

TECHNOLOGIES AND APPROACHES TO REDUCING THE FUEL CONSUMPTION OF MEDIUM- AND HEAVY-DUTY VEHICLES

National Academies Press Technologies and Approaches to Reducing the Fuel Consumption of Medium- and Heavy-Duty Vehicles evaluates various technologies and methods that could improve the fuel economy of medium- and heavy-duty vehicles, such as tractor-trailers, transit buses, and work trucks. The book also recommends approaches that federal agencies could use to regulate these vehicles' fuel consumption. Currently there are no fuel consumption standards for such vehicles, which account for about 26 percent of the transportation fuel used in the U.S. The miles-per-gallon measure used to regulate the fuel economy of passenger cars. is not appropriate for medium- and heavy-duty vehicles, which are designed above all to carry loads efficiently. Instead, any regulation of medium- and heavy-duty vehicles should use a metric that reflects the efficiency with which a vehicle moves goods or passengers, such as gallons per ton-mile, a unit that reflects the amount of fuel a vehicle would use to carry a ton of goods one mile. This is called load-specific fuel consumption (LSFC). The book estimates the improvements that various technologies could achieve over the next decade in seven vehicle types. For example, using advanced diesel engines in tractor-trailers could lower their fuel consumption by up to 20 percent by 2020, and improved aerodynamics could yield an 11 percent reduction. Hybrid powertrains could lower the fuel consumption of vehicles that stop frequently, such as garbage trucks and transit buses, by as much 35 percent in the same time frame.

MODEL 2007 FUEL ECONOMY GUIDE

2007 ENERGIDE LABEL FOR VEHICLES AND FUEL CONSUMPTION GUIDE AUDIT SURVEY

FINAL OVERALL REPORT

FUEL ECONOMY GUIDE

GovAmerica.org

VERTICAL FILE OF AUTOMOBILE FUEL ECONOMY GUIDES

Copies of the Gas Mileage Guide (1989, 1992, 1993) and the Fuel Economy Guide (2000, 2005, 2007), issued annually by the U.S. Department of Energy.

BENEFITS OF RECENT IMPROVEMENTS IN VEHICLE FUEL ECONOMY ON OVERALL FUEL CONSUMPTION AND EMISSIONS

DIGITAL ENTERPRISE AND INFORMATION SYSTEMS

INTERNATIONAL CONFERENCE, DEIS 2011, LONDON, UK JULY 20 - 22, 2011, PROCEEDINGS

Springer This volume constitutes the refereed proceedings of the International Conference on Digital Enterprise and Information Systems, held in London during July 20 - 22, 2011. The 70 revised full papers presented were carefully reviewed and selected. They are organized in topical sections on cryptography and data protection, embedded systems and software, information technology management, e-business applications and software, critical computing and storage, distributed and parallel applications, digital management products, image processing, digital enterprises, XML-based languages, digital libraries, and data mining.

COST, EFFECTIVENESS, AND DEPLOYMENT OF FUEL ECONOMY TECHNOLOGIES FOR LIGHT-DUTY VEHICLES

National Academies Press The light-duty vehicle fleet is expected to undergo substantial technological changes over the next several decades. New powertrain designs, alternative fuels, advanced materials and significant changes to the vehicle body are being driven by increasingly stringent fuel economy and greenhouse gas emission standards. By the end of the next decade, cars and light-duty trucks will be more fuel efficient, weigh less, emit less air pollutants, have more safety features, and will be more expensive to purchase relative to current vehicles. Though the gasoline-powered spark ignition engine will continue to be the dominant powertrain configuration even through 2030, such vehicles will be equipped with advanced technologies, materials, electronics and controls, and aerodynamics. And by 2030, the deployment of alternative methods to propel and fuel vehicles and alternative modes of transportation, including autonomous vehicles, will be well underway. What are these new technologies - how will they work, and will some technologies be more effective than others? Written to inform The United States Department of Transportation's National Highway Traffic Safety Administration (NHTSA) and Environmental Protection Agency (EPA) Corporate Average Fuel Economy (CAFE) and greenhouse gas (GHG) emission standards, this new report from the National Research Council is a technical evaluation of costs, benefits, and implementation issues of fuel reduction technologies for next-generation light-duty vehicles. Cost, Effectiveness, and Deployment of Fuel Economy Technologies for Light-Duty Vehicles estimates the cost, potential efficiency improvements, and barriers to commercial deployment of technologies that might be employed from 2020 to 2030. This report describes these promising technologies and makes recommendations for their inclusion on the list of technologies applicable for the 2017-2025 CAFE standards.

ASSESSMENT OF FUEL ECONOMY TECHNOLOGIES FOR LIGHT-DUTY VEHICLES

National Academies Press Various combinations of commercially available technologies could greatly reduce fuel consumption in passenger cars, sport-utility vehicles, minivans, and other light-duty vehicles without compromising vehicle performance or safety. Assessment of Technologies for Improving Light Duty Vehicle Fuel Economy estimates the potential fuel savings and costs to consumers of available technology combinations for three types of engines: spark-ignition gasoline, compression-ignition diesel, and hybrid. According to its estimates, adopting the full combination of improved technologies in medium and large cars and pickup trucks with spark-ignition engines could reduce fuel consumption by 29 percent at an additional cost of \$2,200 to the consumer. Replacing spark-ignition engines with diesel engines and components would yield fuel savings of about 37 percent at an added cost of approximately \$5,900 per vehicle, and replacing spark-ignition engines with hybrid engines and components would reduce fuel consumption by 43 percent at an increase of \$6,000 per vehicle. The book focuses on fuel consumption-the amount of fuel consumed in a given driving distance-because energy savings are directly related to the amount of fuel used. In contrast, fuel economy measures how far a vehicle will travel with a gallon of fuel. Because fuel consumption data indicate money saved on fuel purchases and reductions in carbon dioxide emissions, the book finds that vehicle stickers should provide consumers with fuel consumption data in addition to fuel economy information.

VEHICLE FUEL ECONOMY

REFORMING FUEL ECONOMY STANDARDS COULD HELP REDUCE OIL CONSUMPTION BY CARS AND LIGHT TRUCKS, AND OTHER OPTIONS COULD COMPLEMENT THESE STANDARDS

1977 GAS MILEAGE GUIDE

ADVANCED TECHNOLOGY VEHICLES

THE ROAD AHEAD : HEARING BEFORE THE SUBCOMMITTEE ON ENERGY, NATURAL RESOURCES, AND INFRASTRUCTURE OF THE COMMITTEE ON FINANCE, UNITED STATES SENATE, ONE HUNDRED TENTH CONGRESS, FIRST SESSION, MAY 1, 2007

CONSUMER GUIDE CAR AND TRUCK TEST

PRICES AND RATINGS, 2007

This Consumer Guide gives best buys, safety ratings, real-world fuel economy for the 300 models it reviewed, as well as price, value, and a bushelful of other information.

VEHICLE FUEL ECONOMY

DIANE Publishing

CONSUMER GUIDE TO HOME ENERGY SAVINGS

New Society Publishers How efficient are front-load washing machines? When is it time to replace your old refrigerator? These questions and many more are answered in The Consumer Guide to Home Energy Savings, a one-stop resource for consumers who want to improve their home's energy performance and reduce costs. Zeroing in on the most useful response can be a challenge; this ninth edition cuts through the confusion. Well-organized and highly readable, The Consumer Guide to Home Energy Savings begins with an overview of the interrelationships between energy use, economics, and the environment. Chapters focus on specific areas in the home, such as electronics, lighting, heating, cooling, ventilation, kitchen, and laundry, and provide helpful explanations for each, including: Describing energy use characteristics Drawing comparisons between available technologies Outlining the most cost-effective repair and replacement options Providing step-by-step guidance for finding the right equipment Describing how the equipment operates Summarizing how much energy is used or lost Included are tips on improving existing equipment and guidance for when and why consumers should purchase new energy-efficient equipment, as well as a reminder to check local government and utility incentives for purchase or retrofit grants. This guide will be an invaluable resource to all consumers concerned about reducing both their energy bills and their environmental impact. Jennifer Thorne Amann is a senior associate in the ACEEE (American Council for an Energy-Efficient Economy) Buildings and Equipment Program. Alex Wilson is president of BuildingGreen, Inc., author of Your Green Home, and executive editor of Environmental Building News.

A CONSUMER GUIDE

TOOLS TO MANAGE VEGETATION AND FUELS

THE CLIMATE DIET

HOW YOU CAN CUT CARBON, CUT COSTS, AND SAVE THE PLANET

Routledge The atmosphere is getting fat on our carbon and other greenhouse gas emissions and it needs our help. We live in a world of excess, consuming too much of everything-food, clothes, cars, toys, shoes, bricks, and mortar. Our bingeing is often so extreme that it threatens our own health and wellbeing. And we are not the only ones who are getting sick. The Earth, which provides the food, air, water, and land that sustains us, is also under severe pressure. We either take steps to put our personal and planetary systems back into balance or we suffer the consequences. So, what does any unhealthy overweight person do when the doctor tells him or her that they are eating themselves into an early grave? Go on a diet! This is the must-have guide to the most important diet ever, explaining climate change concepts, problems, and solutions in ways that anyone can easily understand. Following a six-step climate diet plan, families will be able to count their carbon calories and learn how to reduce them, leaving us with a slim healthy planet now and for the future.

TRANSPORTATION ENERGY DATA BOOK

GRIDLOCK

WHY WE'RE STUCK IN TRAFFIC AND WHAT TO DO ABOUT IT

Cato Institute America is the most mobile society in history, but our transportation system is on the verge of collapse. Traffic congestion is today five times greater than it was 25 years ago, yet many transportation plans and projects are making it worse. As Randal O'Toole reveals in Gridlock, the prime causes of our ailing system are a government transportation planning philosophy whose primary goal is to diminish auto use—hence, personal mobility—in combination with federal budget incentives that perversely encourage transportation planners to increase congestion. As a result, the automobile which is accessible to almost every family in the nation and provides unparalleled access to better housing, low-cost consumer goods, a choice-driven affordable life, and freedom—is being deliberately forced off the transportation grid by the expensive “solution” of little-used high-speed trains and urban transit lines. Gridlock presents a wide range of innovative ideas and policy recommendations for creating an effective transportation system—improvements that will increase our mobility and pay for themselves, whether it's cars, buses, planes, or trains. At the center of O'Toole's solutions are three core principles: those who use transportation facilities should pay for them; negative effects should be dealt with in a cost-efficient manner; and new technologies that will increase mobility at a low cost must be embraced. In Gridlock, Randal O'Toole brings energetic and unconventional thinking to transportation strategies that have, until now, only driven us into the breakdown lane.

WATCHDOGS AND WHISTLEBLOWERS: A REFERENCE GUIDE TO CONSUMER ACTIVISM

A REFERENCE GUIDE TO CONSUMER ACTIVISM

ABC-CLIO This book is the most comprehensive and up-to-date source of information about ways in which consumer activism has reshaped the economic and political well-being of citizens in the United States and around the world. This all-encompassing collection of information about consumer activism and the consumer movement will provide students, public officials, business groups, and other activists with a one-stop source of facts and insights. The contributors explore hundreds of major consumer protections that have significantly enhanced the quality of life and safety for all Americans, showing how these protections were won through the skillful and determined work of leading activists and activist organizations. Many of the stories told here are related by the activists themselves, often for the first time. More than 140 entries offer a comprehensive treatment of the consumer activism of specific organizations, their leaders, and strategies. The book also includes more than 40 entries about consumer movements in Europe, Asia, Africa, and Latin America. A timeline of key events and a listing of the most important books on the subject of consumer activism help provide context for the individual entries as do two introductory essays. Cross references in each entry establish linkages among topics. • Provides the single most comprehensive source available of information about consumer activism and advocacy • Shows how activism has influenced laws and regulations affecting more than 40 consumer issues • Shares personal accounts from activists about their work on these issues • Details information on U.S. national consumer organizations and many state and local consumer groups, including their goals, strategies, leaders, finances, and impact • Offers insights into the ways consumer activist groups have interacted with other nonprofits, policymakers, regulators, and business groups

USED CAR BUYING GUIDE 2007

Features recommendations and ratings on hundreds of small, medium, and large-sized cars based on quality, economy, performance, and comfort standards, with judgments on crash protection, and assessments of available options

ENCYCLOPEDIA OF AUTOMOTIVE ENGINEERING

PART 1: ENGINES - FUNDAMENTALS

John Wiley & Sons

GAS MILEAGE GUIDE

CODE OF FEDERAL REGULATIONS

RECORD 2: 2007-

FUEL CONSUMPTION GUIDE

AUTOMOBILE AND LIGHT TRUCK FUEL ECONOMY

THE CAFE STANDARDS

SCREW LIGHT BULBS

UWA Publishing Australia was the first country in the world to officially ban old fashioned incandescent light bulbs as a solution to climate change but was it a good idea? In fact does anything we do in Australia really make any difference?

EFFECT OF INTAKE AIR FILTER CONDITION ON VEHICLE FUEL ECONOMY

The U.S. Department of Energy (DOE) Office of Energy Efficiency and Renewable Energy and the U.S. Environmental Protection Agency (EPA) jointly maintain a fuel economy website (www.fueleconomy.gov), which helps fulfill their responsibility under the Energy Policy Act of 1992 to provide accurate fuel economy information [in miles per gallon (mpg)] to consumers. The site provides information on EPA fuel economy ratings for passenger cars and light trucks from 1985 to the present and other relevant information related to energy use such as alternative fuels and driving and vehicle maintenance tips. In recent years, fluctuations in the price of crude oil and corresponding fluctuations in the price of gasoline and diesel fuels have renewed interest in vehicle fuel economy in the United States. (User sessions on the fuel economy website exceeded 20 million in 2008 compared to less than 5 million in 2004 and less than 1 million in 2001.) As a result of this renewed interest and the age of some of the references cited in the tips section of the website, DOE authorized the Oak Ridge National Laboratory (ORNL) Fuels, Engines, and Emissions Research Center (FEERC) to initiate studies to validate and improve these tips. This report documents a study aimed specifically at the effect of engine air filter condition on fuel economy. The goal of this study was to explore the effects of a clogged air filter on the fuel economy of vehicles operating over prescribed test cycles. Three newer vehicles (a 2007 Buick Lucerne, a 2006 Dodge Charger, and a 2003 Toyota Camry) and an older carbureted vehicle were tested. Results show that clogging the air filter has no significant effect on the fuel economy of the newer vehicles (all fuel injected with closed-loop control and one equipped with MDS). The engine control systems were able to maintain the desired AFR regardless of intake restrictions, and therefore fuel consumption was not increased. The carbureted engine did show a decrease in fuel economy with increasing restriction. However, the level of restriction required to cause a substantial (10-15%) decrease in fuel economy (such as that cited in the literature) was so severe that the vehicle was almost undrivable. Acceleration performance on all vehicles was improved with a clean air filter. Once it was determined how severe the restriction had to be to affect the

carbureted vehicle fuel economy, the 2007 Buick Lucerne was retested in a similar manner. We were not able to achieve the level of restriction that was achieved with the 1972 Pontiac with the Lucerne. The Lucerne's air filter box would not hold the filter in place under such severe conditions. (It is believed that this testing exceeded the design limits of the air box.) Tests were conducted at a lower restriction level (although still considerably more severe than the initial clogged filter testing), allowing the air filter to stay seated in the air box, and no significant change was observed in the Lucerne's fuel economy or the AFR over the HFET cycle. Closed-loop control in modern fuel injected vehicle applications is sophisticated enough to keep a clogged air filter from affecting the vehicle fuel economy. However for older, open-loop, carbureted vehicles, a clogged air filter can affect the fuel economy. For the vehicle tested, the fuel economy with a new air filter improved as much as 14% over that with a severely clogged filter (in which the filter was so clogged that drivability was impacted). Under a more typical state of clog, the improvement with a new filter ranged from 2 to 6%.

2007 CANADIAN VEHICLE SURVEY

SUMMARY REPORT

Office of Energy Efficiency & Renewable Energy

AUTOMOTIVE FUEL ECONOMY

HOW FAR CAN WE GO?

National Academies Press This volume presents realistic estimates for the level of fuel economy that is achievable in the next decade for cars and light trucks made in the United States and Canada. A source of objective and comprehensive information on the topic, this book takes into account real-world factors such as the financial conditions in the automotive industry, costs and benefits to consumers, and marketability of high-efficiency vehicles. The committee is composed of experts from the fields of science, technology, finance, and regulation and offers practical evaluations of technological improvements that could contribute to increased fuel efficiency. The volume also examines potential barriers to improvement, such as high production costs, regulations on safety and emissions, and consumer preferences. This practical book is of considerable interest to car and light truck manufacturers, policymakers, federal and state agencies, and the public.

GREEN POLITICS

AN A-TO-Z GUIDE

SAGE Colorful bracelets, funky brooches, and beautiful handmade beads: young crafters learn to make all these and much more with this fantastic step-by-step guide. In 12 exciting projects with simple steps and detailed instructions, budding fashionistas create their own stylish accessories to give as gifts or add a touch of personal flair to any ensemble. Following the successful "Art Smart" series, "Craft Smart" presents a fresh, fun approach to four creative skills: knitting, jewelry-making, papercrafting, and crafting with recycled objects. Each book contains 12 original projects to make, using a range of readily available materials. There are projects for boys and girls, carefully chosen to appeal to readers of all abilities. A special "techniques and materials" section encourages young crafters to try out their own ideas while learning valuable practical skills.

GREEN ALTERNATIVES AND NATIONAL ENERGY STRATEGY

THE FACTS BEHIND THE HEADLINES

JHU Press It is no secret that the United States' dependence on oil -- mostly foreign -- puts the country in a precarious position. The United States needs innovative ways not only to power millions of automobiles on its highways but also to secure sustainable sources of fuel for the future. This book presents the latest facts and figures about alternative energy to any physicist, engineer, policymaker, or concerned citizen who needs a reliable source of information on the nation's looming energy crisis. Philip G. Gallman focuses especially on green vehicles and the interrelationship between their design and various energy sources. He explains simply and clearly the complex energy and automotive engineering issues involved in developing green vehicles, measures their likely effect on energy resource demand, and considers what they might mean for national energy strategy. Addressing problems associated with renewable resources often overlooked or ignored in the popular press, Gallman explains what replacing oil with alternative sources of energy realistically entails. Can the nation satisfy its energy demands with wind turbines, solar power, hydroelectric power, or geothermal power? Is biodiesel or electricity the answer to our gas-guzzling ways? Organized logically and with an accessible narrative, Green Alternatives and National Energy Strategy guides readers through the essential questions and hurdles the United States must answer and overcome to transition from a petroleum-dependent nation to one that runs on sustainable, renewable energy.

THE WORLD'S MOST FUEL EFFICIENT VEHICLE

DESIGN AND DEVELOPMENT OF PAC CAR II

vdf Hochschulverlag AG The goal of the PAC-Car project, a joint undertaking of ETH Zurich and its partners, was to build a vehicle powered by a hydrogen fuel cell system that uses as little fuel as possible. PAC-Car II set a new world record in fuel efficient driving (the equivalent of 5,385 km per liter of gasoline) during the Shell Eco-marathon in Ladoux (France) on June 26, 2005. This book, addressed to graduate students, engineering professors and others interested in fuel economy contests, is the first to summarize the issues involved when designing and constructing a vehicle for fuel economy competitions. It describes the adventure of developing the PAC-Car II and offers some specific technical advice for anyone who wants to design an ultra-lightweight land vehicle, whatever its energy source. PAC-Car was a joint project of ETH Zurich and partners from academia and industry. The goal was to build a vehicle powered by a fuel cell system that uses as little fuel as possible. PAC-Car II set a new world record in fuel efficient driving (5,385 km per liter of petrol equivalent) during the Shell Eco-marathon in Ladoux (France) on June 26, 2005. This book is the first to summarize the design and construction issues of a vehicle for fuel economy contests. It deals with the adventure of developing this world-record vehicle and provides some specific technical tips. It will help anyone who is designing an ultra lightweight land vehicle, whatever its source of energy (thermal engine, human power, solar panels), and/or those who are interested in fuel cell applications. The book addresses graduate students and teachers of engineering disciplines as well as other people interested in fuel economy contests. Content: fuel economy competitions, design phase of a fuel economy vehicle, tires, vehicle behavior, aerodynamics, vehicle body structure, wheels, front axle and steering system, powertrain, fuel cell system, driving strategy, conclusion and outlook.

EXPLORING THE SKYROCKETING PRICE OF OIL

HEARING BEFORE THE COMMITTEE ON THE JUDICIARY, UNITED STATES SENATE, ONE HUNDRED TENTH CONGRESS, SECOND SESSION, MAY 21, 2008

GREEN LOGISTICS

IMPROVING THE ENVIRONMENTAL SUSTAINABILITY OF LOGISTICS

Kogan Page Publishers The transport, storage and handling of goods impose a heavy burden on the environment. As concern for the environment rises, companies must take more account of the external costs of logistics associated mainly with climate change, air pollution, noise, vibration and accidents. Leading the way in current thinking on environmental logistics, Green Logistics provides a unique insight on the environmental impacts of logistics and the actions that companies and governments can take to deal with them. It is written by a group of leading researchers in the field and provides a comprehensive view of the subject for students, managers and policy-makers. Fully updated and revised, the 3rd Edition of Green Logistics takes a more global perspective than previous editions. It

introduces new contributors and international case studies that illustrate the impact of green logistics in practice. There is a new chapter on the links between green logistics and corporate social responsibility (CSR) and a series of postscripts examining the likely effects of new developments, such as 3D printing and distribution by drone, on the environmental footprint of logistics. Other key topics examined in the book include: carbon auditing of supply chains; transferring freight to greener transport modes; reducing the environmental impact of warehousing; improving the energy efficiency of freight transport; making city logistics more environmentally sustainable; reverse logistics for the management of waste; role of government in promoting sustainable logistics. Ideal for use on related courses, the 3rd Edition of Green Logistics includes indispensable online supporting materials, including graphics, tables and chapter summaries, as well as technical information and guidelines for teachers and lecturers. The book is endorsed by the Chartered Institute of Logistics and Transport (CILT).

SOCIAL NETWORK MINING, ANALYSIS, AND RESEARCH TRENDS: TECHNIQUES AND APPLICATIONS

TECHNIQUES AND APPLICATIONS

IGI Global "This book covers current research trends in the area of social networks analysis and mining, sharing research from experts in the social network analysis and mining communities, as well as practitioners from social science, business, and computer science"--
Provided by publisher.