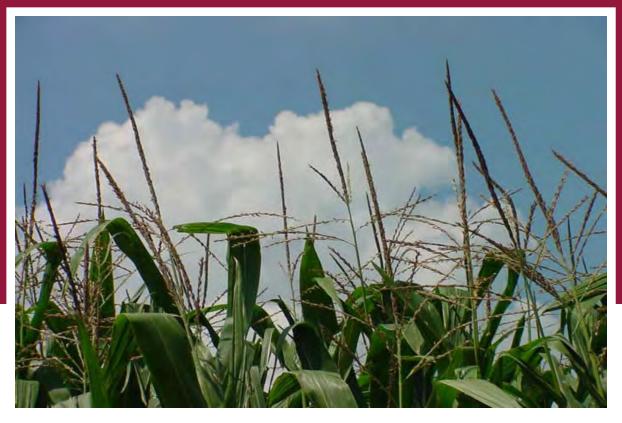
## Alternative Fuel (E85) Performance/Economics/Quality/Usage

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potential environmental benefits. A Transportation's (MoDOT) fleet of development. The implications of E8 Factors like fuel efficiency estima consumption, greenhouse gas emission MoDOT in their future efforts to deter	pplying these findings to the FFV ffers decision makers quantifiable 35 use presented in this study lay the ites, expected engine performance ons, fuel cost considerations and E85 ermine the appropriate policies to guid	nce of FFVs fueled with E85 as well as the fleet within the Missouri Department of measures to be considered during policy e foundation for strategic fleet management. and maintenance, potential to reduce oil 5 fuel accessibility are all available to assist le fleet operations. Balancing the cost benefit
	y offers the tools, including policies	a consideration of the individual district FFV and best practices currently in place in other
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#### **Executive Summary**

Federal regulations encourage fleet management to be part of the environmental solution. MoDOT is proactive in business and environmental responsibility, such as use of E85 in their flexible fuel vehicles (FFVs). This study provides an overview of the E85 trends and best practices among other states as well as vehicle performance and the potential environmental benefits of fueling FFVs with E85. Applying these findings to the FFVs of MoDOTs fleet offers decision makers quantifiable factors to consider during policy development. Factors include fuel efficiency estimates, petroleum based fuel consumption, greenhouse gas emissions and fuel cost comparisons. Missouri is fortunate to have the fifth largest number of E85 refueling locations in the country. This level of accessibility makes it is feasible for MoDOT to contemplate E85 for its entire fleet.

E85 is not a one-size-fits-all solution. It makes sense to evaluate not only at the individual district FFV fleets but also each FFV make and model. Each group of vehicles sharing a particular year, make and model has its own combination of fuel efficiency, cost effective breakeven point and environmental contributions. Collectively, this wide range of individual vehicle factors must be assessed locally and balanced statewide to achieve optimal benefits. E85 has tremendous potential, if used appropriately by MoDOTs FFV fleet. The following summarizes the findings throughout the study:

- FFVs experience no loss in power and acceleration when operating on E85. Performance actually improves with a 5-7% increase in engine horsepower.
- Fuel efficiency may be 20-30% fewer MPG when FFVs are fueled with E85, depending on the year/make/model of the vehicle and other factors (e.g. driver habits, traffic conditions).
- Using seasonal E85 blends, as recommended for Missouri by the U.S. Department of Energy, should eliminate E85 cold start problems.
- Maintenance cost differences between E85 FFVs and their gasoline counterparts are negligible and may actually be reduced for FFVs using E85 because it is a cleaner fuel.
- If fueled with E85, MoDOTs current FFV fleet could reduce petroleum consumption by more than 7,600 barrels per year and GHG emissions by nearly 1,300 tons of CO2 per year.
- The service areas of the 98 E85 (as of December 2007) in Missouri provide adequate refueling opportunities should MoDOT choose to require E85 usage in its FFV fleet.
- For most of MoDOTs current FFVs, there is a realistic price spread at which E85 is more cost effective.



#### Introduction

The purpose of this research is to relate E85 ethanol use to practical applications in MoDOT. This report provides information for MoDOT employees to make good decisions related to E85. Data was gathered about fuels and the various makes, models, and model years of vehicles in MoDOT's Flexible Fuel Vehicle (FFV) fleet. Based on the data, methods were developed to compare fuel costs and to compare current or future vehicle's efficiency.

#### **Overview of Alternative Fuels**

The Energy Policy Act (EPAct) of 1992 defines the following fuels as alternative fuels:

- Pure methanol, ethanol and other alcohols
- o Blends of 85% or more of alcohol with gasoline
- o Natural gas and liquid fuels domestically produced from natural gas
- Liquefied petroleum gas (propane)
- o Coal-derived liquid fuels; hydrogen
- o Electricity
- Pure biodiesel (B100)
- Fuels, other than alcohol, derived from biological materials
- o P-Series fuels

In addition, the U.S. Department of Energy (DOE) is authorized to designate other fuels as alternative fuels, provided the fuel is substantially nonpetroleum, yields substantial energy security benefits, and offers substantial environmental benefits.<sup>1</sup> The focus of this study is the alternative fuel E85, which is a nominal 85 percent ethanol and 15 percent gasoline.

E85 requires a factory-modified engine that is essentially the same as a gasoline engine (same parts – different materials), unlike other alternatives that require different engines such as diesel, electric, or fuel cell. Table 1 provides a side-by-side comparison of gasoline and ethanol. Appendix A provides a comparison of all alternative fuels.



<sup>&</sup>lt;sup>1</sup> http://www.eere.energy.gov/afdc/ethanol/incentives\_laws\_federal.html?print Retrieved July 30, 2008.

	Gasoline	Ethanol
Pump Octane Number	84-93	110
Main Fuel Source	Crude Oil	Corn, grains, or agricultural waste (cellulose)
Energy Content (Lower Heating Value)	116,090 Btu/gal	76,330 Btu/gal for E100
Energy Content (Higher Heating Value)	124,340 Btu/gal	84,530 Btu/gal for E100
Safety Issues (All alternative fuel vehicles must meet today's OEM Safety Standards)	Gasoline is highly flammable, but vehicles have been engineered to reduce risks. Gasoline is not biodegradable, so spills pollute soil and water.	Ethanol is less toxic than gasoline. Ethanol vapors disperse more rapidly than gasoline, lowering concentrations to safe levels more quickly after an accident.

	Gasoline	Ethanol
Energy Security Impacts	Manufactured using oil, of which nearly is 2/3 imported.	Ethanol is produced domestically. E85 reduces lifecycle petroleum use by 70% and E10 reduces petroleum use by 6.3%.
Fuel Availability	Available at all fueling stations.	E85 available at an increasing number of retail stations (nearly 1500 in 43 states). The majority are in the Midwest, with 1/4 of all stations in Minnesota.
Maintenance Issues		Practices are very similar, if not identical, to those for conventionally fueled operations.
Energy Comparison (Percent of Gasoline Energy)	100%	E100 contains 66%, E85 contains 72% to 77%
Environmental Impacts of Burning Fuel	Produces harmful emissions; however, gasoline and gasoline vehicles are improving and emissions are being reduced.	E85 vehicles reduce global warming gases. Tests have also shown that E85 reduces NOx and the toxics benzene and 1, 3-butadiene compared to reformulated gasoline, yet increases formaldehyde and acetaldehyde emissions.

Source: U.S. Department of Energy, Fuel Comparison Chart (2008)



#### National Trends

While flexible fuel vehicles have been manufactured for over a decade, FFVs are gaining significant attention. E85 vehicles were built primarily to take advantage of Corporate Average Fuel Economy (CAFE) standards that offer benefits for producing vehicles that can use environmentally friendly fuels. Even if most consumers never use their flex-fuel capability, automakers still received a CAFE benefit. Current fuel economy credits have been extended to 2019 by Section 109 of the Energy Independence and Security Act of 2007. Environmental benefits take on a new meaning in terms of national security and reducing dependency on foreign oil. Political issues are part of the renewed interest in FFVs and alternative fuels. The most obvious catalyst is the rising price of gasoline. With current oil prices exceeding \$100 per barrel, the time is right for automakers to improve their E85 efficiency, to become more competitive with gasoline. <sup>2</sup>

#### Policies

Effective January 1, 2008, Missouri law requires at least 70 percent of new vehicles purchased for the state vehicle fleet must be FFVs that can operate on fuel blends of 85 percent ethanol (E85). Excess acquisitions of AFVs may be credited towards future biennial goals. If a state agency fails to meet a biennial acquisition goal, then purchases of any non-AFVs are not permitted until the goals are met or an exemption or goal reduction has been granted. In addition, 30% of the fuel purchased annually for use in state fleet vehicles must be alternative fuels<sup>3</sup>.

The most recent Federal legislation includes the Energy Independence and Security Act of 2007 (P.L. 110-140, H.R. 6). Table 2 summarizes the most significant sections of the Act where Departments of Transportation have jurisdiction. These sections strive to increase fuel efficiency and encourage alternate fuels. It is noted that many of these sections still require rulings or funding before they can take effect.

Section of EISA and Agency with Jurisdiction	Summary, Timeline, Next Action
Section 102 Corporate Average Fuel Economy (CAFE) Increase DOT,DOE	EPA Requires an increase in combined (city and highway) CAFE standard to 35 mph overall by 2020. Implementation begins with model year 2011 and phases up. Also requires a rule by December 2010 for work trucks and commercial medium- and heavy-duty trucks. Phases in starting in model year 2011. Requires rulemaking.
Section 105 Consumer Information on the Benefits of Alternative Fuel Vehicles DOT,DOE,EPA	Requires the Department of Transportation (DOT) to develop a new system of rating vehicles that makes it easier for consumers to compare fuel economy and greenhouse gas emissions of vehicles. Requires new labeling for fuel economy information, greenhouse gas emission benefits, and alternative fuel use. Final regulations due 42 months after enactment. Requires rulemaking.
Section 107 DOT/NAS Fuel Economy Studies DOT,NAS	DOT must execute an agreement with the National Academy of Sciences (NAS) to develop a report evaluating vehicle fuel economy standards. Subsequent updates of the report are due every five years through 2025. Five years from agreement date. Requires appropriation.

#### Table 2 – Summary of Energy Independence and Security Act of 2007

<sup>3</sup> Senate Bill 54, 2007 and Missouri Revised Statutes 414.400 and 414.410 as summarized at www.eere.energy.gov/afdc/progs/ind\_state\_laws.php/MO/BIOD Retrieved July 30, 2008.



<sup>&</sup>lt;sup>2</sup> http://www.thefabricator.com/IndustryTrendsAnalysis/IndustryTrendsAnalysis\_Article.cfm?ID=1456 Retrieved July 30, 2008.

Section of EISA and Agency with Jurisdiction	Summary, Timeline, Next Action
Section 108 DOT/NAS Heavy-Duty Fuel Economy Studies DOT,NAS	DOT must execute an agreement with the NAS to develop a report evaluating vehicle fuel economy standards. One year from agreement date. Requires appropriation.
Section 109 Extension of FFV Credit Program DOT,NHTSA	Extends the current fuel economy credits for flexible fuel vehicles (FFVs) and dual- fuel alternative fuel vehicles (AFVs) through 2019. Provides B20-capable vehicles with the same level of fuel economy credit as other dual-fuel vehicles. The maximum increase that may result from such vehicles is capped at 1.2 MPG through 2014, after which it declines and expires in 2020. Effective immediately. Code amendment. Rulemaking from NHTSA expected in 2009.
Section 225 Flexible Fuel Vehicle E85 Optimization Study DOE,DOT,EPA	Requires DOE to study whether optimizing FFVs to operate on ethanol would increase fuel efficiency. Study due 180 days from enactment. Requires appropriation.
Section 227 Study on Optimizing Natural Gas Vehicles for Biogas DOE,DOT,EPA	Requires a study of methods of increasing the fuel efficiency of vehicles using biogas by optimizing natural gas vehicle systems that can operate on biogas, including the advancement of vehicle fuel systems and the combination of hybrid-electric and plug-in hybrid electric drive platforms with natural gas vehicle systems using biogas. 180 days to initiate study. Requires appropriation.
Section 241 Prohibition of Franchise Agreement Restrictions Relating to Renewable Fuel Infrastructure TO BE DETERMINED	Amends Title I of the Petroleum Marketing Practices Act (15 U.S.C. 2801 et seq.) to prohibit future franchise agreements from containing any provisions that restricts the ability of stations to sell E85, B20, or renewable diesel, including installing a renewable fuel pump or tank, converting an existing tank or pump for renewable fuel use, advertising the sale of any renewable fuel, selling renewable fuel on the premises, purchasing renewable fuel, listing renewable fuel availability prices, and allowing for payment of renewable fuel with a credit card. Effective immediately.
Section 242 Reports on Market Penetration of FFVs and E85 Availability DOE,DOT	Requires annual reports to Congress on the market penetration of FFVs and a related bi-annual report on the feasibility of installing E85 infrastructure in areas where FFV penetration has reached 15%. Annual and bi-annual reporting effective immediately.
Section 243 Dedicated Ethanol Pipeline Feasibility Study DOE,DOT	Requires a study to assess the feasibility of ethanol pipelines including economics, market risk, existing or potential barriers, regulatory options to mitigate risk and other factors. 15 months from enactment. Requires appropriation.
Section 245 Biofuels Transportation Infrastructure Adequacy DOE,DOT	Requires a study of the adequacy of existing transportation modes for domestically produced biofuels. 180 days from enactment.
Section 248 Biofuels Distribution and Advanced Biofuels Infrastructure DOE,DOT,EPA	Authorizes a research, development, and demonstration program to test the physical and chemical properties of biofuels as they relate to existing and new distribution infrastructure. Timeline not specified. Requires appropriation.
Section 1131 Increased Federal Share for CMAQ Projects DOT, with state discretion Source: U.S. Department of Energy, Alternative	At the discretion of the state, for funds obligated in FY 2008 or 2009, the state share (20%) for Congestion Mitigation and Air Quality projects may be waived and the federal share may be up to 100% of the project cost. Effective FY2008 and 2009.

Source: U.S. Department of Energy, Alternative Fuels and Advanced Vehicles Data Center



#### Best Practices

MoDOT has shared the spotlight with other DOTs showcased as an EPAct *Success Story* with biodiesel. Likewise for E85, there are strategies and policies from other states that encourage E85 usage in the FFVs, for example:

- All TxDOT employees who must drive to perform their jobs drive an alternative fuel vehicle (AFV) and the
  percentage of alternative fuel use within a district becomes part of the administrator's annual performance
  review. This is a strong incentive for the top official to influence individual AFV operators to use alternative fuel to
  the maximum extent.
- Washington D.C. has not only focused on AFV acquisition but also alternative fuel use. Dedicated AFVs are purchased when possible and a card key fueling system enforces 100% alternative fuel use in its FFVs and bifuel vehicles.
- The Illinois Department of Central Management Services gives agencies key tags for FFVs, provides decals for the FFV fuel doors, and distributes flyers with maps showing the locations of the E85 stations throughout the state.
- North Carolina Division of Motor Fleet Management has policy to allow state vehicle purchasers to trade in vehicles for FFVs at any time rather than waiting the standard 90,000 miles. This is only available for state entities committed to refueling with E85 where possible. Purchasing gasoline is only allowed when travelling where E85 is not available. To support this policy, North Carolina is focused on expanding their E85 availability.
- The Northland District of the U.S. Postal Service, which covers Minnesota and part of Wisconsin, reported that a successful alternative fuel program depends on having an accurate fuel tracking system. Managers and staff were educated on E85 goals and procedures to ensure the designated program will be cost effective. All FFVs are refueled with E85 when they return to the main fleet office. This practice is ensured by personnel at the main fleet office. All FFVs have fuel door decals and E85 fueling station maps.
- The state of Oregon has "Green Fleets". "Green Fleets" are a collection of vehicles and equipment and these fleets are managed by an organization that implements policy, programs and practices addressing the procurement, management and operations. The goal of fleet management is to improve energy efficiency and reduce emissions. They employ strategies including rightsizing vehicles to duties, implementing an anti-idling program as well as operating a 'green' maintenance shop.<sup>4</sup>

#### Performance Findings

FFVs experience no loss in power and acceleration when operating on E85. Actually, the positive impact of using E85 is a substantially higher octane rating than today's gasoline, which means improved performance by way of greater horsepower. E85 has a 100+ octane rating resulting in a five to seven percent increase in engine horsepower. Switching back and forth between the fuel types presents no adverse effects either.

#### Fuel Efficiency

The Environmental Protection Agency has changed the way it estimates miles per gallon (MPG). Starting in model year 2008, estimates will reflect the effects of:

- Faster Speeds & Acceleration
- Air Conditioner Use
- Colder Outside Temperatures



<sup>&</sup>lt;sup>4</sup> www.sustainableoregon.net/toolkit/green\_fleet.cfm Retrieved July 30, 2008.

Consumer Reports indicates this change will benefit consumers; however, initially these lower numbers might be painful to see on the window stickers at the dealership. They tested a variety of vehicles with model years earlier than 2008 and their analysis showed that 90 percent of these vehicles returned worse MPG than the EPA estimates provided for each vehicle. This new system is closer to the results of Consumer Reports' real-world testing. With these new MPG ratings, overall fuel efficiency realized by drivers will now be better than what the EPA predicts on the stickers for some models. A comparison of the old and new MPG ratings is available at www.fueleconomy.gov.<sup>5</sup>

For this study, the MPG estimates were converted to the new ratings system to help compare the MPG of older and newer cars. Below is a summary of the estimated combined fuel efficiencies for MoDOT FFV fleet. The combined fuel efficiency values were assumed to be ten percent city and 90 percent highway driving. Reviewing MoDOT fleet data for the first three quarters of fiscal year 2007, this combination is the best fit when compared to actual MPG. FFVs may have different MPG estimates for different model years. In these cases, the most recent model year estimate is provided in Table 3 below. However, full details for each FFV year, make, and model are provided in Appendix B.

Vehicle Make	Model	MPG Estimated for E85 ONLY	MPG Estimated for Gasoline ONLY
Chevrolet	Impala	22	30
Chevrolet	Silverado 1500	15	18
Dodge	Grand Caravan	15	23
Dodge	Ram 1500	10	14
Dodge	Stratus	18	24
Ford	Explorer	13	17
Ford	Taurus	18	24

Table 3 – MoDOT Flex Fuel Vehicle Fleet Fuel Efficiencies as of FY08 (3<sup>rd</sup> Quarter)

Source: MoDOT (2008)

The reality with MoDOT and other fleets is that most FFVs do not run on one fuel exclusively. This may be due to convenience of fuel availability or driver habit. Some FFVs are operated with only gasoline. This prompts the question – does a FFV get have the same MPG estimate for gasoline as the non-flexible fuel or gasoline-only model of the same make and year? The answer depends on the year, make and model. A review of the vehicle types currently represented in MoDOTs FFV fleet shows no dominant trends one way or the other. Some makes vary from one year to the next regarding which vehicle, FFV or gasoline-only, is estimated to have higher MPG with gasoline.

MoDOT provided fleet data from the first three quarters of fiscal year 2008. The data includes the total vehicle miles traveled and the total gallons fuel (both gasoline and E85) recorded for each FFV upon refueling. The data collection method could not provide independent fuel efficiencies realized from E85 use (if any) versus choosing gasoline. Only overall quarterly totals were available rather than mileage between each refueling event noting the fuel choice. Therefore, actual fuel efficiencies could not be calculated for each FFV in this study. Instead, the percent of E85 fuel usage is calculated to show the impact of E85 fuel on MPG for each FFV in the fleet. Some vehicles were omitted



<sup>&</sup>lt;sup>5</sup> www.consumerreports.org Retrieved July 30, 2008.

from the data set used for this analysis because they showed unrealistic fuel efficiencies (e.g. over 50 MPG). This was most likely caused by errors recording or inputting the data. However, these omissions account for well below ten percent of the total FFVs provided by MoDOT.

There are more than 330 FFVs included in this evaluation; therefore, the table providing the fuel efficiency calculations is provided in Appendix C. The fuel efficiencies calculated reflect the reality that E85 yields lower MPG. For example, an Impala in the fleet using just over 90 percent E85 got 23 MPG; however, another Impala that only fueled with gasoline got 31 MPG. The results in Appendix C illustrate how much fuel efficiency fluctuates. It is important to note that these fluctuations are NOT caused only by the fuel usage but there are other contributing factors like driving habits, traffic conditions, etc. In the first three quarters of fiscal year 2007, MoDOTs FFVs averaged approximately 20 MPG. At the low end, one Silverado 1500 achieved 8 MPG with 54% of its fuel being E85. At the high end, one Stratus achieved 35 MPG with 15% of its fuel being E85.

Because a gallon of ethanol contains 72 to 77 percent less energy than a gallon of gasoline, FFVs may get 20 to 30 percent fewer miles per gallon with E85<sup>6</sup>. This is confirmed with the combined fuel efficiency estimates for MoDOTs FFVs in Appendix C where the EPA MPG estimates for E85 and gasoline are shown for each FFV year, make and model. Fewer miles per gallon with E85 means more stops to refuel as compared to fueling with gasoline. Some E85 fuel efficiency loss is the result of automobile manufacturers optimizing performance for gasoline, even in FFVs. An increase in MPG with E85 could be realized if that was the goal of the automaker.

For future vehicle acquisitions, MoDOT may consult the U.S. Department of Energy's annual Fuel Economy Guide for MPG ratings on all FFVs each new model year. The preliminary version of the *2009 Fuel Economy Guide* is available at www.fueleconomy.gov/fed/download.shtml.

#### Cold Starts

In Colorado, cold start tests were performed on the early models of the flex-fueled and the standard gasoline Taurus. Manufacturers recommended practices were followed for the vehicles. A winter grade blend of the ethanol fuel was used – E70 (70% ethanol with 30% gasoline). Both the FFV and conventional Taurus started at -20°F when tested with gasoline. When the FFV Taurus was fueled with ethanol, it did not start at -20° or -15°F, but was successful at -10°F. Though this vehicle was equipped with an engine block heater, it was not in use for these tests. It was expected that using the heater would have resulted in successful starts at the colder temperatures.

In addition, the ethanol fueled Taurus out-performed the standard gasoline test vehicles at -10°F. It was observed that the FFV with E70 actually had a lower crank time (4 seconds) and a better idle rating (7 on a scale from 1 to 9 with 1 being the lowest rating) as compared to both the FFV with gasoline (9 seconds; idle rating 5) and the conventional model (8 seconds; idle rating 4.5).<sup>7</sup>

Operating ethanol powered vehicles in regions with seasonal climate shifts require different blends of the ethanol product. This is why states have labeling laws to display stickers as required by the Federal Trade Commission for E85 fuel that indicates 'Minimum 70% Ethanol'. Cars or trucks to be considered an alternative fuel vehicle (for tax incentives) must be able to operate on <u>up to</u> 85 percent ethanol. The ethanol fuel is seasonally adjusted for cold



<sup>&</sup>lt;sup>6</sup> http://www.fueleconomy.gov/feg/flextech.shtml Retrieved July 30, 2008.

<sup>&</sup>lt;sup>7</sup> http://www.nrel.gov/docs/fy99osti/26578.pdf This fact sheet was prepared by the National Renewable Energy Laboratory, a U.S. Department of Energy Laboratory operated by Midwest Research Institute • Battelle • Bechtel June 1999

weather to a blend less than 85 percent ethanol.<sup>8</sup> The more hydrocarbons in the fuel mean the lower the flash point to ignite the fuel when starting. A minimum of 70% by volume of alcohol is permitted in the winter blend by the ASTM fuel standard.<sup>9</sup>

Geography and season indicate the appropriate blend for FFVs. There are three volatility classes for ethanol (designated 1, 2, and 3). Class 1 is summertime E85, and needs to have a minimum of 79 percent ethanol (so even E85 doesn't have to be E85). Class 2's ethanol minimum is 74 and Class 3, wintertime ethanol, is 70 percent. In some parts of the country, Wyoming, for example, Class 3 is sold from October through May and Class 1 is sold only in July and August.<sup>10</sup> The Department of Energy's "Handbook for Handling, Storing and Dispensing E85" indicates the following volatility classes for Missouri as shown in the following table:

-			,	,			J				5 5		
	Month	Jan.	Feb.	Mar.	Apr.	Мау	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.
	Class	3	3	3	3/2	2/1	1	1	1	1/2	2/3	3	3

Table 4 – Volatility Class by Month for the Geographic Fuel-Marketing Region: Missouri

Source: U.S. Department of Energy, Handbook for Handling, Storing, and Dispensing E85 (2006)

"This seasonal blending from 15% to 30% gasoline limits concerns about winter cold starting and are similar to seasonal adjustments of volatility (vapor pressure) used in gasoline blending throughout the United States." <sup>11</sup> In addition, the Colorado vehicle tests provided a worst case frame of reference for winter temperatures and were performed with Taurus' – a vehicle commonly used in MoDOTs fleet. Missouri does not typically experience sustained winter temperatures below -10°F as was the case in Colorado. It can be deduced that Missouri should not have concerns for cold starts as long as the appropriate ethanol blend is used as indicated in Table 4.

For MoDOT facilities with on-site storage tanks, it is important that the fuel supplier have proper test equipment and the ability to convert summer/winter blend automatically. If a fuel supplier delivers a summer-blended fuel in late fall, this could be the cause for slow starting in some of the FFVs<sup>12</sup>. The U.S. Department of Energy's *Handbook for Handling, Storing, and Dispensing E85* includes helpful guidelines and recommendations including E85 Specifications & Standards and Quality Assurance. Some quality checks may be performed on-site by MoDOT, but others may require laboratory services. The handbook and testing procedures may be found online in the E85 Fleet Toolkit at www.eere.energy.gov/afdc/e85toolkit/guidelines.html



<sup>&</sup>lt;sup>8</sup> http://alternativefuels.about.com/od/ethanole85/a/flexfuelvehicle.htm Retrieved July 30, 2008.

<sup>&</sup>lt;sup>9</sup> http://www.autobloggreen.com/2007/02/27/when-is-e85-not-85-percent-ethanol-when-its-e70-with-an-e85-st/ Retrieved July 30, 2008.

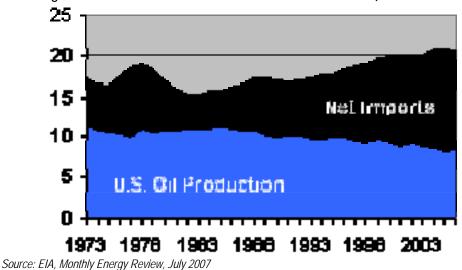
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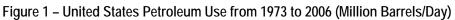
<sup>&</sup>lt;sup>11</sup> http://www.autobloggreen.com/2007/02/27/when-is-e85-not-85-percent-ethanol-when-its-e70-with-an-e85-st/ Retrieved July 30, 2008.

<sup>&</sup>lt;sup>12</sup> http://www.eere.energy.gov/afdc/e85toolkit/lessons.html Retrieved July 30, 2008.

#### Energy Impact

Reducing the consumption of petroleum-based fuels is a goal for fleets across the country, not just in Missouri. As a policy decision, the use of E85 in fleet vehicles can reduce dependence on foreign oil. The U.S. Department of Energy reports that the U.S. consumes more than 20 million barrels of oil each day, 60 percent of which is imported. More relevant is the fact that is it is estimated that 68 percent of that petroleum fuel is used for transportation. This imported oil costs approximately \$270 billion annually. Figure 1 shows the history of U.S. oil consumption:





The following graphic illustrates the effect of a single vehicle's consumption of petroleum-based fuel. This represents an average petroleum consumption for trucks and suvs used in MoDOTs fleet. By choosing to run a vehicle on alternative fuels the impact is real.



An Energy Impact Score depicts the number of barrels of petroleum that a given vehicle will likely consume each year<sup>13</sup>. Approximately 28 gallons of ethanol is one less barrel of oil, reducing demand for imported oil by almost 100,000 barrels per day. This reduces the U.S. trade deficit by billions. Renewable energy helps extend our fuel supply by adding volume to the fuel market<sup>14</sup>.

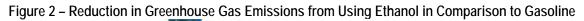
Based on 10 percent city and 90 percent highway fuel efficiency estimates for each vehicle in the MoDOT FFV fleet, MoDOT vehicles have a potential to reduce annual petroleum consumption by more than 7,600 barrels/year. (See Appendix D for reductions contributed by each MoDOT FFV.) This was calculated by using the DOE Energy Impact

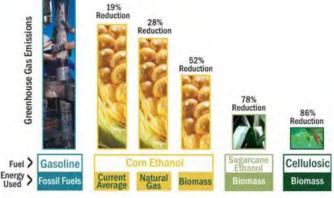
 <sup>&</sup>lt;sup>13</sup> U.S. Department of Energy, GREET Model, Argonne National Laboratory and U.S. petroleum statistics: U.S. DOE, Energy Information Administration (EIA). *Monthly Energy Review*, July 2007.
 <sup>14</sup> http://www.iowacornethanol.com/1b.html Retrieved July 30, 2008.

Scores for each FFV year, make and model and multiplying by the number of that type of vehicle currently in the fleet. Individual Energy Impact Scores are in Appendix B.

#### Greenhouse Gas Emissions (GHG)

E85 has the highest oxygen content of all available fuels, so it burns more fully. In addition to the benefits of a cleaner burning fuel, the GHG emissions from the total life cycle of ethanol fuel are much less than those from gasoline. Today, on a life cycle basis, ethanol produced from corn results in about a 20 percent reduction in GHG emissions relative to gasoline. With improved efficiency and use of renewable energy, this reduction could be as much as 52 percent. In the future, ethanol produced from cellulose has the potential to cut life cycle GHG emissions by up to 86 percent relative to gasoline<sup>15</sup> as illustrated in Figure 2 below:





Source: Wang et al, Environmental Research Letters, Vol. 2, 024001, May 22, 2007

The current MoDOT FFV fleet has the potential to reduce its carbon footprint by nearly 1,300 tons of CO2 by using E85 fuel rather than gasoline. (See Appendix D for reductions by FFV.) Ethanol blended fuels currently in the market meet stringent tailpipe emission standards. In addition, ethanol readily biodegrades without harm to the environment, and is a safe, high-performance replacement for fuel additives such as MTBE.

The U.S. Department of Energy dispels the myth that more energy goes into producing ethanol than it delivers as fuel. "In terms of fossil energy, each gallon of ethanol produced from corn today delivers one third or more energy than is used to produce it. Ethanol has a positive energy balance – that is, the energy content of ethanol is greater than the fossil energy used to produce it – and this balance is constantly improving with new technologies."

<sup>&</sup>lt;sup>15</sup> http://www.doe.gov/media/biofuels\_greenhouse\_gases\_myth\_and\_facts.pdf Retrieved July 30, 2008.

#### Application to MoDOT's Fleet

The Missouri Energy Task Force provided recommendations in August 2006 for promoting the development of alternative fuel sources. Prior to that publication, MoDOT was reported as the lead state agency in the use of alternative fuels. MoDOT has been doing their part to support the proposed efforts to conserve energy, reduce dependence on foreign energy sources, and support Missouri agriculture.

Based on fleet data provided by MoDOT for fiscal year 2007, MoDOT had 6,446 vehicles. Of those, 715 or 11 percent were flexible fuel vehicles. Only 15 percent of the fuel consumed by FFVs was alternative fuel as shown in Table 5:

Fuel Type	Gallons
Biodiesel	5,365
Ethanol	36,226
Other	11,262
Alternative Fuel Total	52,853
Diesel	2,912
Gasoline	308,293
Total Fuel FY07	364,058
Percent Alternative Fuels	15%

#### Table 5 – MoDOT Fleet Using Alternative Fuels

Source: MoDOT, 2007

The caveat to the usage of E85 is typically whether or not such fuel is commercially available. One purpose of this research project is to relate availability of the fuel across the state, which is critical in determining the feasibility of serving the fleet within and traveling between all ten Districts and Headquarters.

#### Access to E85

As of the close of the 2007 calendar year, there are 98 E85 station locations throughout Missouri with more than a half a dozen locations planned and not yet accessible<sup>16</sup>. Minnesota is nearing 400 locations ranking it number one for number of E85 stations; Missouri is fifth. Missouri's station locations have been mapped in conjunction with MoDOT facility locations on Figure 3.





<sup>&</sup>lt;sup>16</sup> http://www.mocorn.org/Ethanol/e85.htm#fuelingLocations Retrieved July 30, 2008.

000  $\odot$ Major Missouri Roads ESS Stations ()M Missouri Statewide E85 Fueling Stations 0 5 10

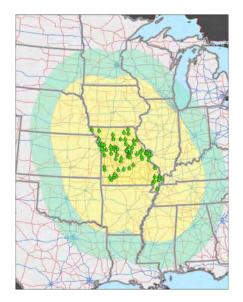
Figure 3 – E85 Station Locations

E85 Performance/Efficiency/Quality/Usage – RI07-043 Missouri Department of Transportation



As shown in Figure 3, District 9 is located in an area with the fewest E85 stations. This is reflected by the few FFVs based there. However, travel from any district office or maintenance facility does not exceed minimum service range from current E85 stations. Access to E85 in Missouri is based on fuel efficiencies realized by MoDOT in the first three quarters of fiscal year 2008, as discussed earlier and documented in Appendix C. The fuel efficiencies (MPG) assumed ten percent city and 90 percent highway driving; multiplying the MPG by the vehicles fuel capacity (gallons) provided mileage per tank of fuel for each FFV. The minimum and maximum values provide the range of travel for MoDOTs fleet.

The Dodge Ram 1500 afforded the shortest range of 260 miles per tank of E85. Though the tank capacity is 26 gallons, the largest tank size, the combined fuel efficiency is only ten miles per gallon (MPG) with E85. 390 miles is the farthest distance provided by the Chevrolet Silverado 1500. The Silverado also carries 26 gallons of fuel capacity in its tank; however, its combined fuel efficiency is 15 MPG with E85. These minimum and maximum service ranges are shown in Figure 4:





As shown in Figure 4, the state of Missouri <u>does</u> have adequate E85 refueling opportunities should MoDOT choose to operate its fleet on E85 as a policy. Though it is geographically feasible at this time, the distribution of refueling opportunities still does not provide convenience. Trip planning is required to identify routes with access to E85 stations. There are station locators powered by Google that allow a driver to select one or more fuel types and enter their origin and destination such as http://www.eere.energy.gov/afdc/stations/find\_route.php This route may not be the most efficient in terms of overall mileage. Additional miles travelled means additional gallons of fuel consumed.

Considerations for additional on-site E85 refueling locations are more involved than cost benefit calculations used in the private sector. Policy decisions for the use of E85 within the fleet will affect the benefit received from investing in bulk storage. For example, District 9 has the least conveniently accessible refueling opportunities; however, there may be a low return from their FFVs, based on fuel price and efficiency comparisons, as will be discussed later in this study—depending on the make and model of the FFVs in their fleet. In that case, the contribution of the District 9 fleet from an environmental perspective may not offer enough merit to investing in bulk storage. Other perspectives, such as policy requirements, may still justify development.



Education about, acceptance of and accessibility to E85 are key to the success of its use by MoDOT employees. MoDOT already provides E85 at some of its facilities. There is also a nationwide push for more gas stations to provide better public access. MoDOT use of public stations would increase demand for them. There may be opportunities for MoDOT to partner with the private sector or even other agencies as part of statewide expansion. E85 infrastructure projects can be daunting but the U.S. Department of Energy, Energy Efficiency and Renewable Energy suggests: <sup>17</sup>

- Contacting other fleet managers to compare lessons learned from operations similar to MoDOT. Appendix E contains a summary of fleet case studies and success stories as well as contact information for fleet managers.
- It is critical to any fueling station's success to have a dependable fuel supplier and a certified contractor familiar with E85. Although ethanol fuels are in wide use today, many old misconceptions remain. Contact Clean Cities coalitions (St. Louis and Kansas City) and the National Ethanol Vehicle Coalition for industry contacts familiar with E85, E85 suppliers, and partnership opportunities.
- Seek potential partners (public or private) that can share the expense of providing access to E85 fuel. A near-by fleet may also be interested in evaluating E85 fueling possibilities. A centrally located station, or a station at another fleet site to share fueling resources, is an option to consider at a fraction of the cost of providing fuel independently.

#### Maintenance & Operations

Of vital importance before setting policy for alternative fuel use is the consideration of the long-term effects of such a decision on maintenance and operations. The current MoDOT fleet includes the following FFVs that offer the opportunity to use E85 fuel:

Model Years	Vehicle Make	Model
2006,2007	Chevrolet	Impala
2003, 2004, 2005,2006	Chevrolet	Silverado 1500
2001, 2002, 2003, 2006	Dodge	Grand Caravan
2004	Dodge	Ram 1500
2003, 2004	Dodge	Stratus
2003, 2004, 2005	Ford	Explorer
1997,1998, 1999, 2000, 2001, 2002, 2004, 2005	Ford	Taurus

#### Table 6 – MoDOT Flex Fuel Vehicle Fleet as of FY08 (3rd Quarter)

Source: MoDOT (2008)

<sup>17</sup> http://www.eere.energy.gov/afdc/e85toolkit/partnering.html Retrieved July 30, 2008.



E85 FFVs are engineered to run on blends of gasoline and ethanol in any percentage up to 85 percent in a single tank. Special onboard diagnostics "read" the fuel blend, so there are no switches to flip, no mixing or blending. The Powertrain Control Module automatically adjusts fuel injection and ignition timing to compensate for the different fuel mixtures. This makes using E85 "transparent" to the driver.

The fuel sensor that detects the ethanol/gasoline ratio is the only major additional part included on flex-fueled vehicles. A number of other parts on FFVs fuel delivery systems—fuel tank, fuel lines, fuel injectors, computer system, anti-siphon device, and dashboard gauges—are slightly modified so they are ethanol compatible. Because alcohols are corrosive the parts in contact with ethanol have been upgraded, like stainless steel fuel tanks and Teflon lined fuel hoses.

Data gathered by other states report negligible differences in general maintenance costs between E85 vehicles and gasoline counterparts. Studies indicate maintenance costs may be reduced for FFVs because of the way E85's cleaner exhaust emission impacts engine operation and performance.<sup>18</sup>

#### Cost Comparison

Annual fuel costs to operate the MoDOT FFVs are included in Appendix B. These were based on the assumptions of ten percent city and 90 percent highway driving, 15,000 annual miles and recent fuel prices of \$3.89 per gallon of gasoline and \$3.05 per gallon of E85. These annual fuel costs are a single snap shot of a scenario with multiple variables that change at different rates. While these values could be used as a benchmark for operating costs, a more practical measure is one that may be applied by each driver when faced with a decision at the pump.

MoDOT FFVs are fueled from zero to 100 percent with E85 fuel depending on the vehicle. As mentioned previously, the ratio of E85 to gasoline impacts the fuel efficiency of any given vehicle in addition to the variations from one make and model to the next. Changes between individual driver habits and vehicle use in the field can yield MPG far greater or less than those estimated for the vehicle. Tank capacity is not consistent throughout the fleet, which also contributes to the inability to accurately average annual fuel costs for the entire fleet. Each vehicle must be evaluated separately.

The most obvious and significant variable in these calculations is the dynamic nature of fuel prices. E85 and gasoline do not inflate at the same rate. Table 7 notes recent fuel prices in the state of Missouri during 2008 (January through July). This sampling of actual fuel costs reported by consumers may include more than one report on a single date from a different location in the state. Table 7 illustrates the variation in the costs per gallon of E85 as compared to gasoline as well as the price spread ranging from six to 26 percent:

<sup>18</sup> http://www.constructionbusinessowner.com/topics/environment-and-compliance/consider-energy-and-environmental-costswhen-making-fleet-decisions.html Retrieved July 30, 2008.

E85	Gas	Price	Date	E85	Gas	Price	Date				
Price	Price	Spread	Reported	Price	Price	Spread	Reported	¢2.01	¢2 70	150/	20. kur
\$2.34	\$2.99	22%	5-Jan	\$3.09	\$3.79	18%	23-May	\$3.21	\$3.79	15%	28-Jun
\$2.44	\$2.99	18%	7-Jan	\$3.08	\$3.76	18%	23-May	\$3.09	\$3.92	21%	30-Jun
\$2.34	\$2.89	19%	23-Jan	\$3.15	\$3.75	16%	23-May	\$3.19	\$3.89	18%	30-Jun
\$2.47	\$2.80	12%	1-Feb	\$3.08	\$3.76	18%	24-May	\$3.19	\$3.97	20%	2-Jul
\$2.44	\$2.89	16%	28-Feb	\$3.17	\$3.79	16%	26-May	\$3.37	\$3.95	15%	2-Jul
\$2.44	\$2.99	18%	29-Feb	\$3.17	\$3.75	15%	26-May	\$3.09	\$3.88	20%	3-Jul
\$2.52	\$3.04	17%	18-Mar	\$3.17	\$3.72	15%	30-May	\$3.15	\$3.93	20%	3-Jul
\$2.49	\$3.09	19%	21-Mar	\$3.11	\$3.87	20%	31-May	\$3.26	\$3.92	17%	3-Jul
\$2.49	\$3.09	19%	24-Mar	\$3.39	\$3.89	13%	31-May	\$3.21	\$3.79	15%	4-Jul
\$2.79	\$3.14	11%	3-Apr	\$3.11	\$3.87	20%	1-Jun	\$3.09	\$3.98	22%	6-Jul
\$2.64	\$3.29	20%	19-Apr	\$3.15	\$3.89	19%	2-Jun	\$3.27	\$3.97	18%	6-Jul
\$2.74	\$3.39	19%	21-Apr	\$3.09	\$3.72	17%	2-Jun	\$3.39	\$3.83	11%	6-Jul
\$2.99	\$3.48	14%	22-Apr	\$3.07	\$3.75	18%	4-Jun	\$3.62	\$3.98	9%	7-Jul
\$2.69	\$3.37	20%	24-Apr	\$2.99	\$3.72	20%	5-Jun	\$3.09	\$3.95	22%	8-Jul
\$3.12	\$3.47	10%	25-Apr	\$3.09	\$3.90	21%	6-Jun	\$3.39	\$3.95	14%	8-Jul
\$2.99	\$3.59	17%	26-Apr	\$3.05	\$3.89	22%	10-Jun	\$3.09	\$3.92	21%	9-Jul
\$2.79	\$3.49	20%	28-Apr	\$3.06	\$3.90	22%	12-Jun	\$3.50	\$3.93	11%	9-Jul
\$2.99	\$3.53	15%	4-May	\$3.06	\$3.89	21%	12-Jun	\$3.15	\$3.88	19%	11-Jul
<mark>\$3.11</mark>	<mark>\$3.31</mark>	<mark>6%</mark>	<mark>5-May</mark>	\$3.31	\$3.93	16%	12-Jun	\$3.19	\$3.98	20%	12-Jul
\$3.15	\$3.35	6%	5-May	\$3.23	\$3.83	16%	13-Jun	\$3.21	\$3.79	15%	12-Jul
<mark>\$2.69</mark>	<mark>\$3.63</mark>	<mark>26%</mark>	<mark>8-May</mark>	\$3.16	\$3.78	16%	13-Jun	\$3.39	\$3.99	15%	12-Jul
\$3.08	\$3.54	13%	8-May	\$2.99	\$3.85	22%	14-Jun	\$3.63	\$3.99	9%	12-Jul
\$3.29	\$3.62	9%	8-May	\$3.09	\$3.86	20%	17-Jun	\$3.15	\$3.92	20%	14-Jul
\$2.89	\$3.69	22%	9-May	\$3.27	\$3.87	16%	18-Jun	\$3.39	\$3.98	15%	15-Jul
\$2.89	\$3.62	20%	13-May	\$3.09	\$3.99	23%	19-Jun	\$3.19	\$3.90	18%	16-Jul
\$2.99	\$3.69	19%	13-May	\$3.09	\$3.84	20%	21-Jun	\$3.27	\$3.87	16%	16-Jul
\$2.69	\$3.56	24%	17-May	3.09	\$3.84	20%	22-Jun	\$3.39	\$3.96	14%	17-Jul
\$3.14	\$3.68	15%	19-May	\$3.49	\$3.92	11%	24-Jun	\$3.16	\$3.88	19%	18-Jul
\$3.09	\$3.69	16%	20-May	\$3.09	\$3.86	20%	25-Jun	\$3.37	\$3.95	15%	2-Jul
\$3.09	\$3.79	18%	21-May	\$3.09	\$3.84	20%	27-Jun	\$3.09	\$3.88	20%	3-Jul
\$3.30	\$3.69	11%	21-May	\$3.19	\$3.88	18%	28-Jun	\$3.15	\$3.93	20%	3-Jul

Table 7 – Price Spreads Reported between E85 and Gasoline Costs per Gallon

Source: http://e85prices.com/missouri.html



E85 costs less but yields fewer miles per gallon compared to gasoline. The following analysis determines the breakeven point at which E85 becomes cost effective for each FFV. (A sample of FFV types with corresponding fuel tank capacity and estimated MPG is evaluated at a range of price points to determine the percent spread between costs per gallon. This analysis accounts for the specifications of each fleet vehicle.) Table 8 summarizes the findings for vehicle sample:

Year	Make	Model	MPG Estimated for E85 ONLY	MPG Estimated for Gasoline ONLY	MPG Difference	Price Spread
2006	Chevrolet	Impala	20	27	7	26%
2007	Chevrolet	Impala	22	30	8	27%
2004	Chevrolet	Silverado 1500	13	17	4	23%
2005	Chevrolet	Silverado 1500	12	16	4	25%
2003	Chevrolet	Silverado 1500	13	17	4	23%
2005/2006	Chevrolet	Silverado 1500	15	18	3	17%
2001/2002	Dodge	Grand Caravan	15	21	6	29%
2003/2006	Dodge	Grand Caravan	15	23	8	35%
2004	Dodge	Ram 1500	10	14	4	28%
2003/2004	Dodge	Stratus	18	24	6	25%
2004	Ford	Explorer	14	18	4	22%
2005	Ford	Explorer	13	17	4	23%
2000-05	Ford	Taurus	18	24	6	25%
2000	Ford	Taurus SE	18	25	7	28%

#### Table 8 – Price Spread for E85 to be the Economical Choice

Source: TranSystems

Multiple model years for the same FFV make and model are included in Table 8 to show how slight changes to MPG impact the percent difference in cost of E85 as compared to gasoline. Comparing the spread to the history illustrated in Table 7, the actual price spread varied from six to 24 percent thus far in 2008. This indicates it is likely that prices will vary such that it may be more cost effective to fuel the majority of the fleet with E85. The newer Silverado 1500s only require a 17 price spread to be fueled most cost effectively with E85. There are some vehicles that require a cost differential that has yet to be achieved. The worst case is the Dodge Grand Caravan. This FFV would require a price spread greater than 35 percent for E85 to be a cost effective choice; this is unlikely. That is not to say that changes in demand and industry production won't impact pricing such that these greater spreads could be realized in the future. This analysis presents the feasibility of considering cost effectiveness of E85 a viable factor for fleet fueling policies. These values strive for the optimal breakeven point based purely on the cost of fuel per mile driven; however, lesser price comparisons may be desired and achievable.

Drivers can make cost effective decision at the pump if educated on these price spread requirements. Data specific to the vehicle's year/make/model may be provided in each FFV to be used as a quick reference to determine the best



fuel choice whenever refueling. The most user friendly option would function similar to a tip calculator used by restaurant patrons. A matrix could provide a cross reference for potential gasoline prices per gallon to determine the E85 price per gallon threshold for a cost effective purchase. Local decision makers can use this information when setting policy for E85 use in FFVs.

This analysis considers the cost effectiveness of fueling MoDOT's fleet with E85; however, this can be just one element of a total fueling policy that balances the goals to conserve energy, reduce dependence on foreign energy sources, lower greenhouse gas emissions and support Missouri agriculture with the annual costs of operations. Using the District 9 example; their fleet consists of Stratus and Taurus FFVs, which require a spread of at least 25 percent. This is just beyond the highest price spread experienced thus far. Consideration of the reality of experiencing that cost spread and the environmental impact potential of E85 use for their size of fleet, relative to the entire MoDOT FFV fleet, may not be enough to justify on-site tanks to facilitate any policies for predominant E85 use. District specific decisions can account for the net positive impact of an E85 strategy to determine the best fit.



#### Summary of Findings

Having access to E85 fuel across the state makes it possible for decision makers to consider environmentally friendly policies in Missouri with measurable results. E85 presents the challenge of balancing the tremendous environmental benefits against fuel efficiency loss. Realizing lesser MPG in the FFVs fueled by E85 diminishes the return perceived from a lower price per gallon at the pump as compared to gasoline. Cost effective fleet operations are in mind when the study evaluates the breakeven point that considers both fuel efficiency and cost per gallon. Given the feasibility of operating FFVs on E85 in Missouri, decision makers may start by evaluating the cost comparisons and then incorporate environmental considerations to set policy. Make and model analysis illustrates vast differences to be considered in future vehicle purchases. For example, consider what has been presented for the Chevy Silverado 1500 versus the Dodge Grand Caravan. The Silverado 1500 can be cost effectively fueled with E85 with a price spread of only 17%; however, gasoline would be the preferred fuel for the Dodge Grand Caravan based on the same cost comparison analysis. Fueling the Grand Caravan exclusively with gasoline would not offer a reduction in GHG or oil consumption; however, there are less than 10 of these FFVs in MoDOTs fleet. Meanwhile there are over 250 Silverado 1500 FFVs in the fleet that are currently being fueled predominantly with gasoline. Not only would fueling the 1500s with E85 be more cost effective at today's prices but the environmental impacts realized from the reduction in the carbon footprint (>660 tons of CO2) and the consumption of oil (>3,500 barrels/year) are significant. This would clearly offset the potential loss of choosing the less environmentally friendly option to operate the Grand Caravan on gasoline. The Grand Caravan FFVs collectively would have only contributed a reduction of < 8 tons of CO2 and < 83 barrels/year. This analysis suggests that policy may not be applicable for the entire fleet but rather a consideration for each make and model and its comparative contribution as a fraction of the entire fleet. In addition, there may be policy determinations by district based on their FFV fleet composition (e.g. makes and models), trip planning requirement for refueling and district contribution to the overall environmental goals for the state. State and District leadership may consider the impact of district level policies on overall fleet operations and policy may affect strategic decisions like FFV district assignments or considerations for additional on-site bulk storage of E85.

The following summarizes the general E85 findings and the potential implications of E85 use by MoDOTs FFV fleet:

- FFVs experience no loss in power and acceleration when operating on E85. Performance actually improves with a 5-7% increase in engine horsepower.
- Fuel efficiency may be 20-30% fewer MPG when FFVs are fueled with E85, depending on the year/make/model of the vehicle and other factors (e.g. driver habits, traffic conditions).
- Using seasonal E85 blends, as recommended for Missouri by the U.S. Department of Energy, should eliminate E85 cold start problems.
- Maintenance cost differences between E85 FFVs and their gasoline counterparts are negligible and may actually be reduced for FFVs using E85 because it is a cleaner fuel.
- If fueled with E85, MoDOTs current FFV fleet could reduce petroleum consumption by more than 7,600 barrels per year and GHG emissions by nearly 1,300 tons of CO2 per year.
- The service areas of the 98 E85 (as of December 2007) in Missouri provide adequate refueling opportunities should MoDOT choose to require E85 usage in its FFV fleet.
- For most of MoDOTs current FFVs, there is a realistic price spread at which E85 is more cost effective.



Appendix A

## Side-By-Side Comparison of Alternative Fuels

Provided by

U.S. Department of Energy Energy Efficiency and Renewable Energy

Alternative Fuels & Advanced Data Center

http://www.eere.energy.gov/afdc/progs/fuel\_compare.php



	Gasoline	No. 2 Diesel	Biodiesel	Compressed Natural Gas(CNG)	Electricity	Ethanol	Hydrogen	Liquefied Natural Gas (LNG)	Liquefied Petroleum Gas (LPG)	Methanol
Pump Octane Number	84-93	N/A	N/A	120+	N/A	110	130+	120+	105	112
Main Fuel Source	Crude Oil	Crude Oil	Fats and oils from sources such as soy beans, waste cooking oil, animal fats, and rapeseed	Underground reserves	Coal, nuclear, natural gas, hydroelectric, and small percentages of wind and solar.	Corn, grains, or agricultural waste (cellulose)	Natural gas, methanol, and electrolysis of water.	Underground reserves	A by-product of petroleum refining or natural gas processing	Natural gas, coal, or, woody biomass
Energy Content (Lower Heating Value)	116,090 Btu/gal	128,450 Btu/gal	119,550 Btu/gal for B100	20,268 Btu/lb	3,414 Btu/kWh	76,330 Btu/gal for E100	51,585 Btu/lb	74,720 Btu/gal	84,950 Btu/gal	57,250 Btu/gal
Energy Content (Higher Heating Value)	124,340 Btu/gal	137,380 Btu/gal	127,960 Btu/gal for B100	22,453 Btu/lb	3,414 Btu/kWh	84,530 Btu/gal for E100	61,013 Btu/lb	84,820 Btu/gal	91,410 Btu/gal	65,200 Btu/gal
Energy Comparison (Percent of Gasoline Energy)	100%	111%	B100 has 103% the energy of gasoline or 93% of diesel. B20 has 109% of gasoline or 99% of diesel	1 lb CNG has 17.5% the energy of 1 gal gasoline.	1 kWh electricity contains 3% of the energy in 1 gal gas	E100 contains 66%, E85 contains 72% to 77%	1lb H2 has 44.4% the energy in one gallon gasoline	64%	73%	49%
Environmental Impacts of Burning Fuel	Produces harmful emissions; however, gasoline and gasoline vehicles are improving and emissions are being reduced.	Diesel vehicles have been engineered to reduce risks. Diesel is not biodegradable, so spills pollute soil and water.	Reduces hydrocarbons, toxic compounds, CO, particulate matter, and global warming gases. Has uncertain impact on NOx.	Compared to reformulated gasoline, CNG emits less (and less reactive) ozone- forming pollutants, hydrocarbons (including potency- weighted toxics), CO, formaldehyde, and acetaldehyde. Only methane emissions were increased by the use of CNG.	EVs have zero tailpipe emissions; however, most electricity production emits pollution.	E85 vehicles reduce global warming gases. Tests have also shown that E85 reduces NOx and the toxics benzene and 1, 3- butadiene compared to reformulated gasoline, yet increases formaldehyde and acetaldehyde emissions.	Zero regulated tailpipe emissions for fuel cell vehicles, however, pollutants are emitted from hydrogen production.	Considered similar to CNGcompared to reformulated gasoline, it emits less (and less reactive) ozone- forming pollutants, hydrocarbons (including potency- weighted toxics), CO, formaldehyde, and acetaldehyde. Only methane emissions were increased by the use of LNG.	Compared to gasoline, LPG reduces CO by 20%, total hydrocarbons by 40%, and NOx by 30%.	When compared to reformulated gasoline, M85 emitted fewer (and less reactive) ozone forming pollutants, hydrocarbons, and potency-weighted toxics (including acetaldehyde, benzene, 1, 3- butadiene.) However, it also emitted more NOx and formaldehyde.



	Gasoline	No. 2 Diesel	Biodiesel	Compressed Natural Gas(CNG)	Electricity	Ethanol	Hydrogen	Liquefied Natural Gas (LNG)	Liquefied Petroleum Gas (LPG)	Methanol
Energy Security Impacts	Manufactured using oil, of which nearly is 2/3 imported.	Manufactured using oil, of which nearly is 2/3 imported.	Biodiesel is domestically produced, renewable, and reduces petroleum use 95% throughout its lifecycle.	CNG is domestically produced. The United States has vast natural gas reserves.	Electricity is generated mainly through coal fired power plants. Coal is the United States' most plentiful and price-stable fossil energy resource.	Ethanol is produced domestically. E85 reduces lifecycle petroleum use by 70% and E10 reduces petroleum use by 6.3%.	Hydrogen is produced domestically and can be produced from renewable sources.	LNG is domestically produced.	Approximately half of the LPG in the U.S. is derived from oil, but no oil is imported specifically for LPG production.	Methanol is domestically produced, sometimes from renewable resources.
Fuel Availability	Available at all fueling stations.	Available at many fueling stations.	Available at an increasing number of retail stations. Nearly 653 stations in 45 states offer blends of at least 20% biodiesel. Also available in bulk from an increasing number of suppliers.	Available at an increasing number of retail stations (784 in 45 states). Home refueling appliances also available.	Most buildings have adequate electrical capacity for charging, but special hookup or upgrades may be required. Decreasing numbers of electrical charging stations are available in 14 states.	E85 available at an increasing number of retail stations (nearly 1500 in 43 states). The majority are in the Midwest, with 1/4 of all stations in Minnesota.	There are only 37 hydrogen stations across the country. Most are in California and available for private use only.	Public LNG stations are limited (only 47 nationally), LNG is also available through several suppliers of cryogenic liquids.	LPG/Propane is the most accessible alternative fuel in the U.S. There are more than 2,240 stations nationwide.	Methanol remains a qualified alternative fuel as defined by EPAct, but it is not commonly used or easily available.
Maintenance Issues			Hoses and seals may be affected by higher- percent blends; lubricity is improved over that of conventional diesel fuel.	High-pressure tanks require periodic inspection and certification.	Service requirements are less than with gasoline or diesel. No tune-ups, oil changes, timing belts, water pumps, radiators, or fuel injectors are required. However, it is likely that the battery will need replacement before the vehicle is retired.	Practices are very similar, if not identical, to those for conventionally fueled operations.	When hydrogen is used in fuel cell applications, maintenance should be very minimal.	High-pressure tanks require periodic inspection and certification.	Some fleets report service lives that are 2-3 years longer, as well as extended intervals between required maintenance.	Special lubricants must be used as directed by the supplier and M-85- compatible replacement parts must be used.
Safety Issues (All alternative fuel vehicles must meet today's OEM Safety Standards)	Gasoline is highly flammable, but vehicles have been engineered to reduce risks. Gasoline is not biodegradable, so spills pollute soil and water.	Diesel is a relatively safe fuel since people have learned to use it safely. Diesel is not biodegradable though, so a spill could pollute soil and water.	B100 is non-toxic and biodegradable. Furthermore, it doesn't ignite as easily as diesel fuel.	Pressurized tanks have been designed to withstand severe impact and high external temperatures. Leakage can present a hazard, but can usually be detected because an odorant is added to CNG.	OEM EVs meet all the same vehicle safety standards as conventional vehicles. However, under FMVSS 500,	Ethanol is less toxic than gasoline. Ethanol vapors disperse more rapidly than gasoline, lowering concentrations to safe levels more quickly after an accident.	Hydrogen has an excellent industrial safety record; codes and standards have now been developed for fuel cell vehicle systems and components to reduce risks.	Cryogenic fuels require special handling procedures and equipment to properly store and dispense. Leak detectors must be used because odorants cannot be added to LNG.	Adequate ventilation is important for fueling an LPG-fueled vehicle due to increased flammability of LPG. LPG tanks are 20 times more puncture resistant than gasoline tanks.	Methanol is extremely toxic. Exposure can occur through inhalation of vapors or through skin contact.



Appendix B

### Fleet Vehicle Data Sheets

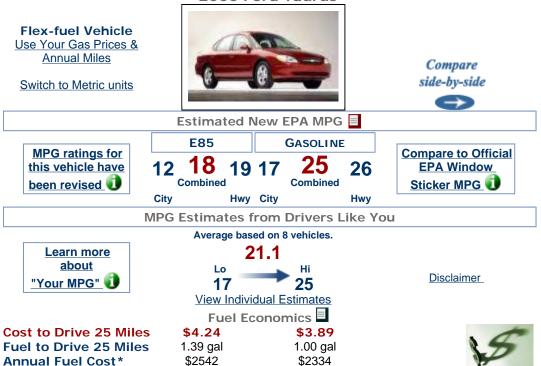
Provided by

U.S. Department of Energy Energy Efficiency and Renewable Energy & U.S. Environmental Protection Agency

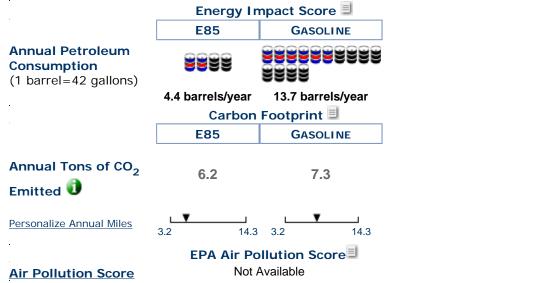
http://www.fueleconomy.gov/feg/



#### 2000 Ford Taurus

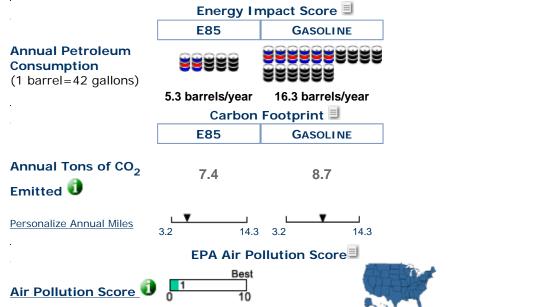


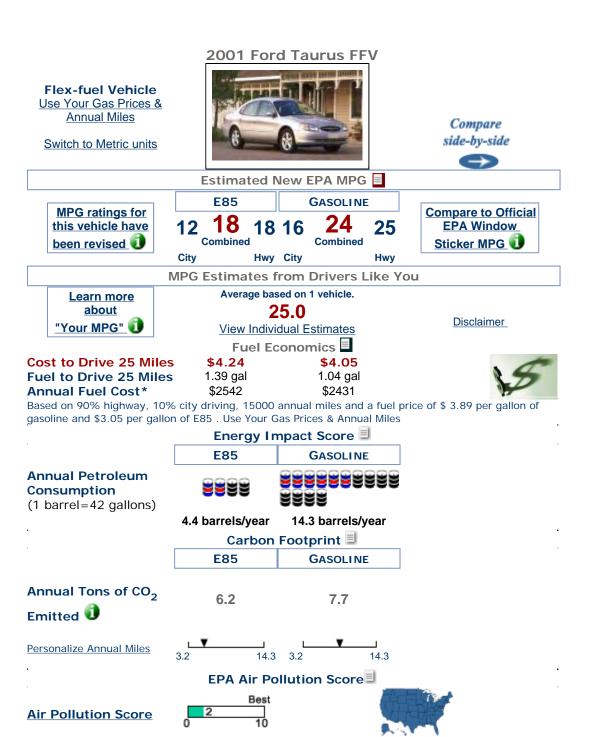
Based on 90% highway, 10% city driving, 15000 annual miles and a fuel price of \$ 3.89 per gallon of gasoline and \$3.05 per gallon of E85 . Use Your Gas Prices & Annual Miles





Based on 90% highway, 10% city driving, 15000 annual miles and a fuel price of \$ 3.89 per gallon of gasoline and \$3.05 per gallon of E85 . Use Your Gas Prices & Annual Miles

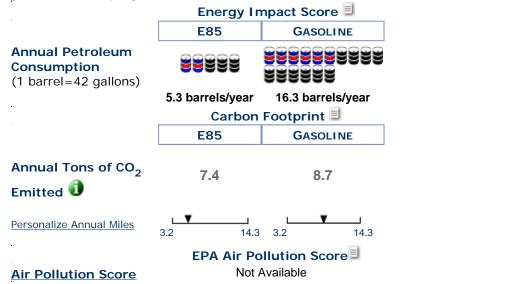




#### 2002 Dodge Caravan 2WD

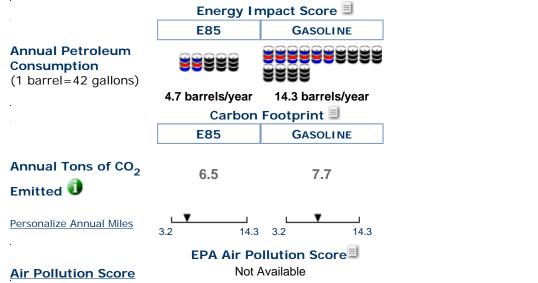


gasoline and \$3.05 per gallon of E85 . Use Your Gas Prices & Annual Miles

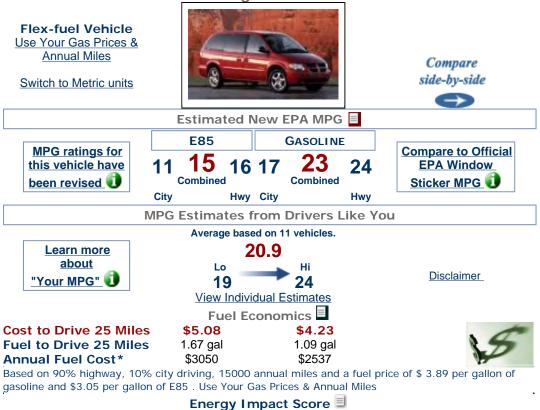


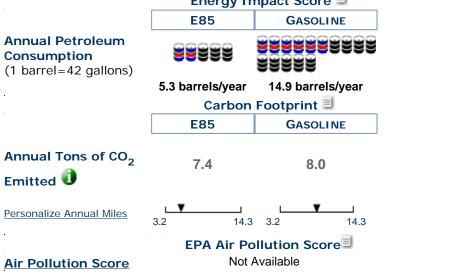


Based on 90% highway, 10% city driving, 15000 annual miles and a fuel price of \$ 3.89 per gallon of gasoline and \$3.05 per gallon of E85 . Use Your Gas Prices & Annual Miles

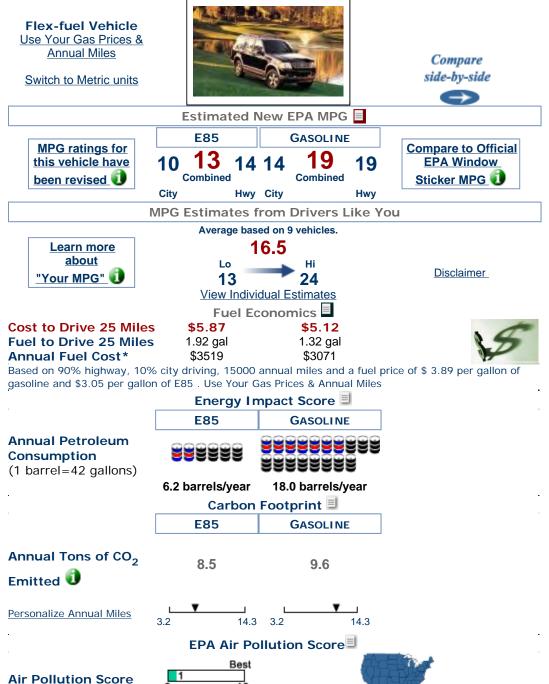


#### 2003 Dodge Caravan 2WD

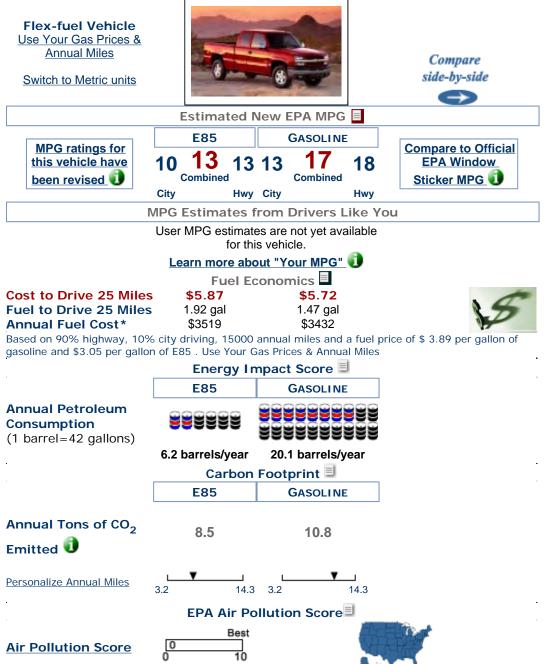




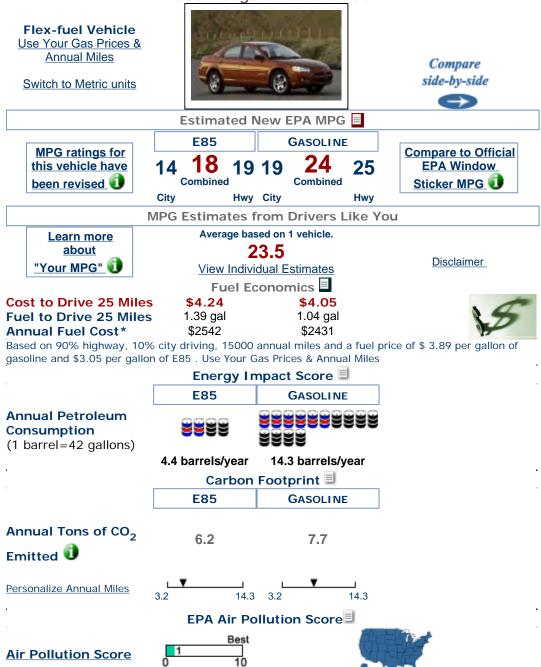
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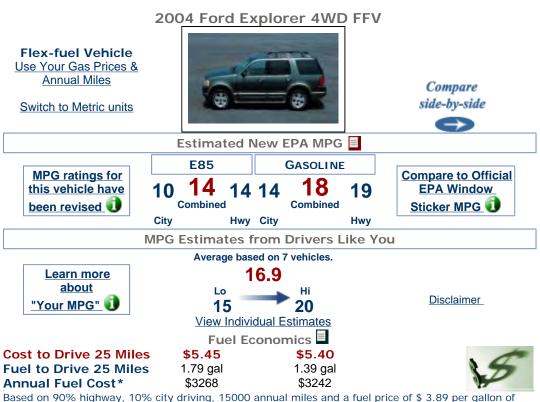


#### 2003 Chevrolet Silverado 1500 2WD

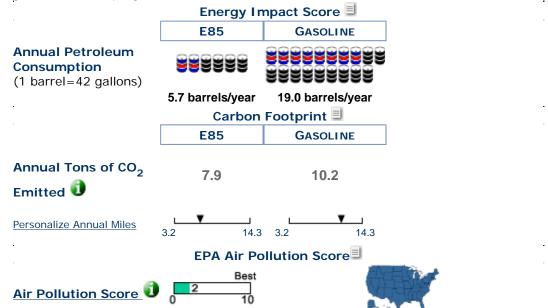


#### 2003 Dodge Stratus 4 Door

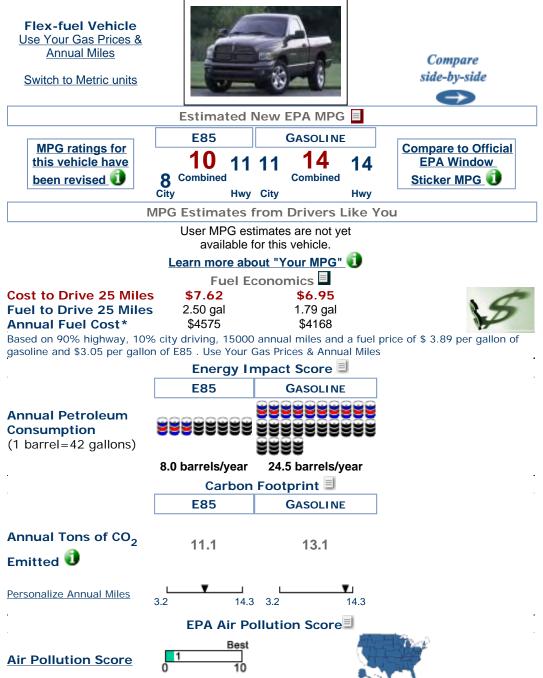




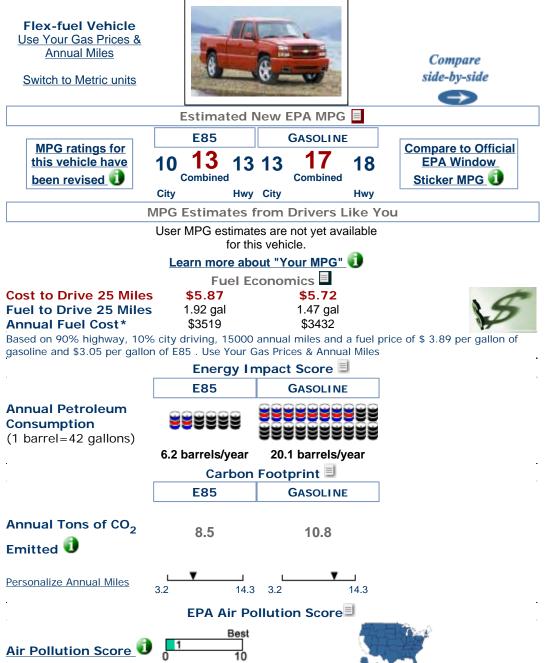
gasoline and \$3.05 per gallon of E85. Use Your Gas Prices & Annual Miles



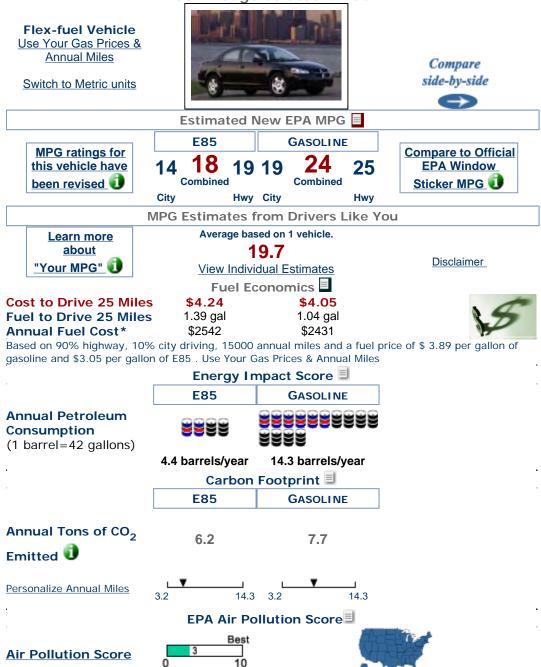
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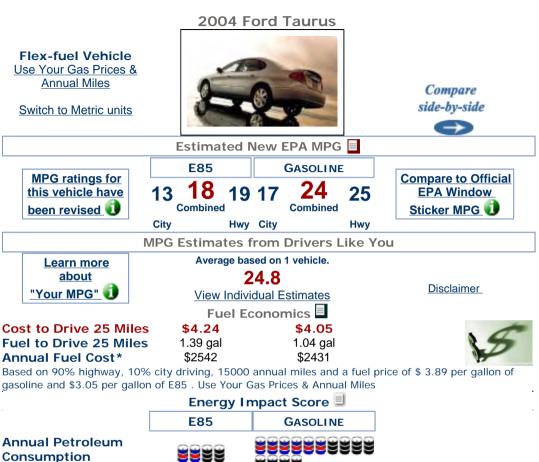


#### 2004 Chevrolet Silverado 1500 2WD

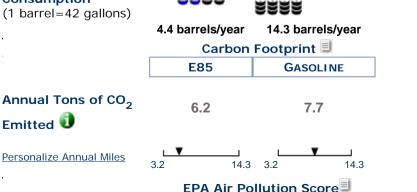


#### 2004 Dodge Stratus 4 Door





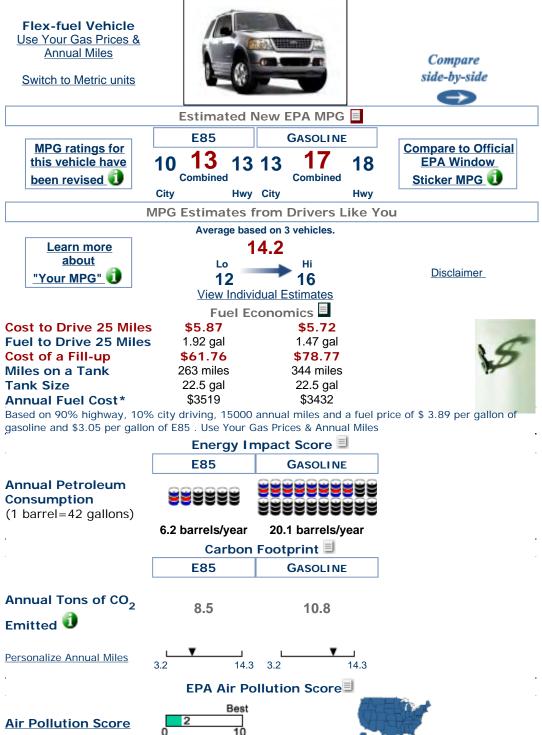
(1 barrel=42 gallons)



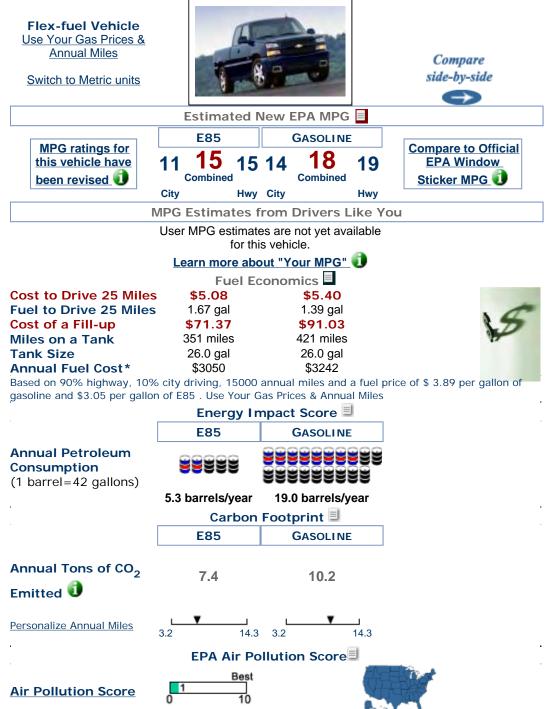
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**Air Pollution Score** 

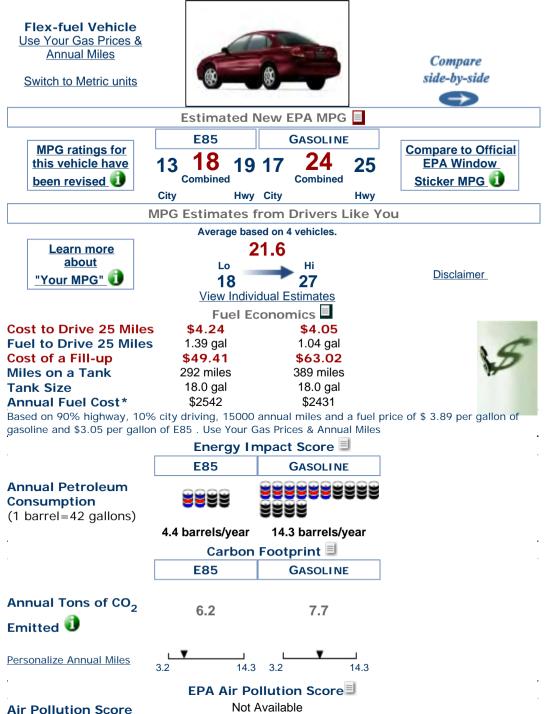
#### 2005 Ford Explorer FFV 4WD



### 2005 Chevrolet Silverado 1500 2WD



#### 2005 Ford Taurus



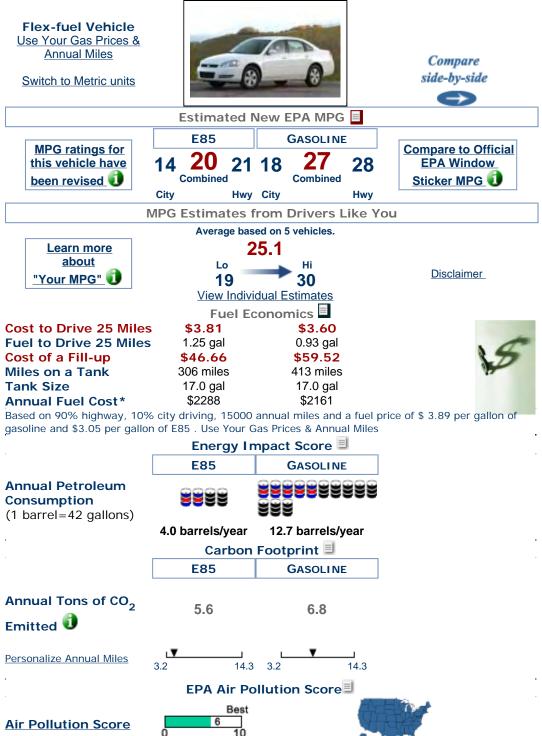
#### 2006 Dodge Caravan 2WD **Flex-fuel Vehicle** Use Your Gas Prices & Annual Miles Compare side-by-side Switch to Metric units Estimated New EPA MPG F85 **GASOLINE** MPG ratings for Compare to Official 15 23 this vehicle have EPA Window 24 11 16 17 Sticker MPG Combined been revised 🚺 Combined Hwy City Citv Hwv MPG Estimates from Drivers Like You Average based on 8 vehicles. Learn more 20\_6 about ۱٥ Hi Disclaimer "Your MPG" 🚺 19 View Individual Estimates Fuel Economics Cost to Drive 25 Miles \$5.08 \$4.23 Fuel to Drive 25 Miles 1.67 gal 1.09 gal Cost of a Fill-up \$54.90 \$70.02 Miles on a Tank 414 miles 270 miles Tank Size 20.0 gal 20.0 gal Annual Fuel Cost\* \$3050 \$2537 Based on 90% highway, 10% city driving, 15000 annual miles and a fuel price of \$ 3.89 per gallon of gasoline and \$3.05 per gallon of E85. Use Your Gas Prices & Annual Miles Energy Impact Score F85 GASOLINE Annual Petroleum Consumption 22222 (1 barrel=42 gallons) 14.9 barrels/year 5.3 barrels/year Carbon Footprint 🗐 F85 GASOLINE Annual Tons of CO<sub>2</sub> 7.4 8.0 Emitted 🚺 Personalize Annual Miles 3.2 14.3 3.2 14.3

#### Air Pollution Score

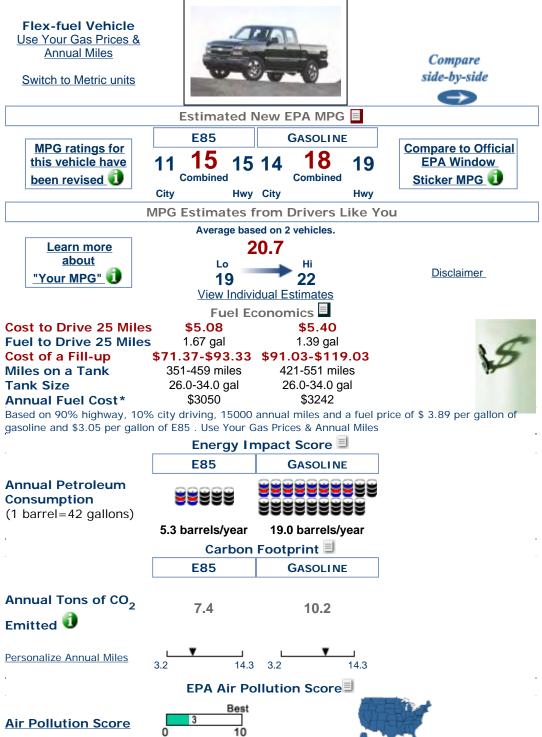
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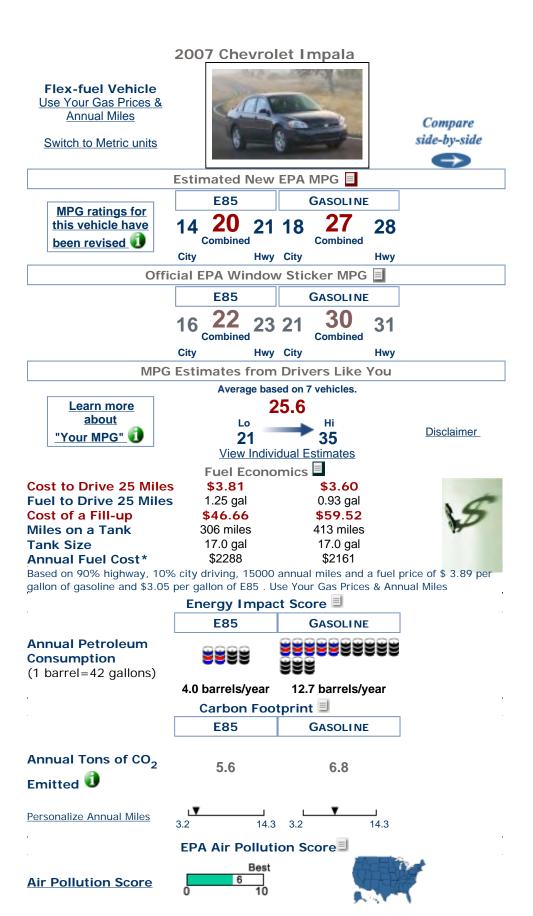
EPA Air Pollution Score ■

#### 2006 Chevrolet Impala

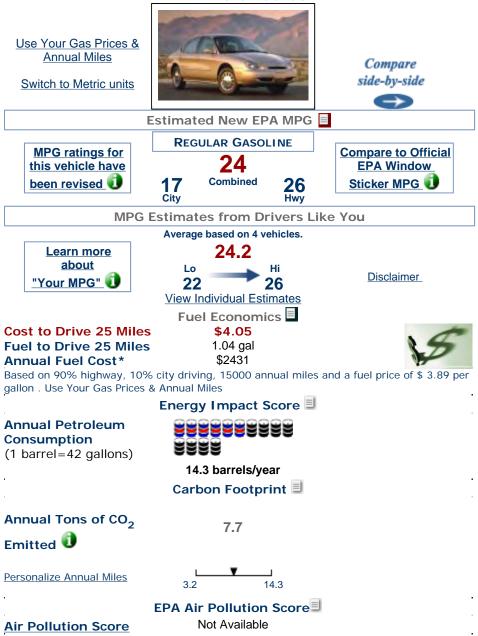


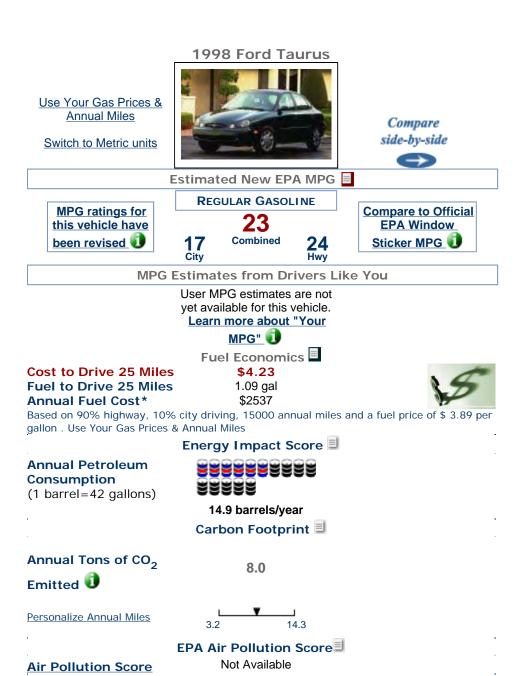
#### 2006 Chevrolet Silverado 1500 2WD



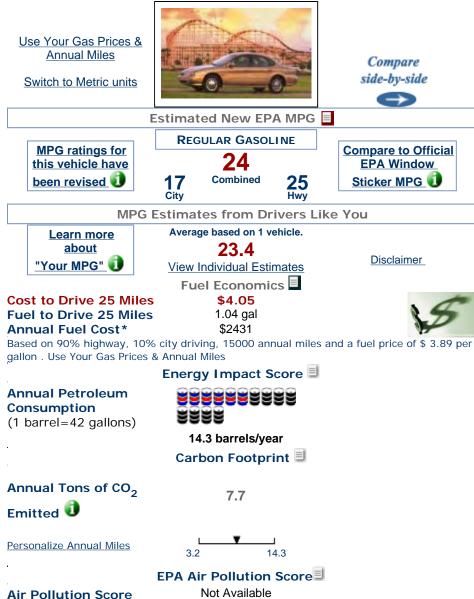


#### 1997 Ford Taurus





#### 1999 Ford Taurus



Appendix C

# MoDOT FFV Fuel Efficiency Calculations

Provided by

Missouri Department of Transportation & TranSystems



B6011         2006         Cherrolet         Impala         716         750         7910         1827         90.5%         22.11         77         393         20         3401         20           B6002         Chevrolet         Impala         0         1372.0         34.00         0.0%         25.0         77         425         20         3401         2           B6009         2006         Chevrolet         Impala         0         6.28.3         6.28.3         10.14         0.0%         25.0         77         425         20         3401         2           B6014         2006         Chevrolet         Impala         25.71         20.05         457.7         176.0         77.6         27.11         77         407         20         340         2           B6091         2007         Chevrolet         Impala         0         22.1         22.21         52.41         0.0%         23.6         77         407         22         374         3           B6092         2007         Chevrolet         Impala         0         47.3         47.3         152.0         0.0%         23.6         77         402         22         374         3		ar Make	Model	E-85 (Gallons)	Gas (Gallons)	Total Fuel (Gallons)	Mileage	Percent E-85 Usage	Miles Per Gallon	Fuel Tank Capacity (Gallons)	Miles per Tank	MPG with E-85* ONLY	Miles per Tank of E-85 ONLY	MPG with Gasoline* ONLY	Miles per Tank of Gasoline ONLY	MPG Difference
B6012         2006         Chewrolet         Impala         62         897.2         959.2         228.8         6.5%         23.8         17         405         20         340         2           86008         2006         Chewrolet         Impala         0         137.2         33430         0.0%         25.0         17         454         20         340         2           86014         2006         Chevrolet         Impala         0.2         71.7         17.7         451         20         340         2           86014         2006         Chevrolet         Impala         0.7         17.7         17.7         461         20         340         2           86025         2006         Chevrolet         Impala         0         32.7         17         401         22         374         3           86093         2007         Chevrolet         Impala         0         417.8         418.1         1199.6         0.0%         25.3         17         432         22         374         3           80687         2007         Chevrolet         Impala         0         417.8         418.4         442.1         10912         0.0%		6 Chevrolet I	Impala	231	561.4	792.4	16916	29.2%	21.3	17	363	20	340	27	459	7
B6008         2006         Chewrotet         Impala         0         1372.0         1372.0         1372.0         1372.0         1372.0         1372.0         1372.0         1372.0         1372.0         1372.0         1372.0         1372.0         1372.0         1372.0         1372.0         1372.0         1372.0         1372.0         1372.0         1372.0         1372.0         1372.0         1372.0         1372.0         1372.0         1372.0         1372.0         1372.0         1372.0         1372.0         1372.0         1372.0         1372.0         1372.0         1372.0         1372.0         1372.0         1372.0         1372.0         1372.0         1372.0         1372.0         1372.0         1372.0         1372.0         1372.0         1372.0         1372.0         1372.0         1372.0         1372.0         1372.0         1372.0         1372.0         1372.0         1372.0         1372.0         1372.0         1372.0         1372.0         1372.0         1372.0         1372.0         1372.0         1372.0         1372.0         1372.0         1372.0         1372.0         1372.0         1372.0         1372.0         1372.0         1372.0         1372.0         1372.0         1372.0         1373.0         1372.0         1372.0	11 2006	6 Chevrolet I	Impala	716	75.0	791.0	18267	90.5%	23.1	17	393	20	340	27	459	7
B6009         2006         Chevrolet         Impala         0         628.3         628.3         1674.4         0.0%         25.7         17         45.6         20         340         2           B6014         2006         Chevrolet         Impala         62.7         71.2         80.3         71.7         77%         27.1         17         467         20         340         2           B6019         2007         Chevrolet         Impala         0         323.7         303.7         100%         23.6         17         407         22         374         3           B6093         2007         Chevrolet         Impala         0         47.1         47.1         115.2         0.0%         23.7         17         403         22         374         3           B6094         2007         Chevrolet         Impala         0         47.3         47.8         1199.0         0%         25.4         17         453         22         374         3           B6097         2007         Chevrolet         Impala         0         448.4         448.4         13070         0.0%         29.6         17         503         22         374	12 2006	6 Chevrolet I	Impala	62	897.2	959.2	22858	6.5%	23.8	17	405	20	340	27	459	7
B6014       2006       Chevrolet       Impala       62       741.2       803.2       217.5       7.7%       27.1       17       467       20       340       2         B6025       2006       Chevrolet       Impala       257.15       200.5       457.7       12627       56.2%       27.6       17       467       20       340       2       340       2       347       3         B6093       2007       Chevrolet       Impala       0       303.7       303.7       120.6       0.0%       23.4       17       403       22       374       3         B6094       2007       Chevrolet       Impala       0       472.1       472.1       1152.2       0.0%       23.4       17       403       22       374       3         B6087       2007       Chevrolet       Impala       0       448.4       448.4       13070       0.0%       25.4       17       432       2       374       3         B6095       2007       Chevrolet       Impala       0       343.0       395.3       0.0%       29.6       17       503       22       374       3         B6095       2007       Chevrole	08 2006	6 Chevrolet I	Impala	0	1372.0	1372.0	34300	0.0%	25.0	17	425	20	340	27	459	7
B6052         2006         Chevrolet         Impala         257.15         200.5         447.7         12627         56.2%         22.6         17         469         20         340         22           B6091         2007         Chevrolet         Impala         0         322.3         222.3         5241         0.0%         23.6         17         401         22         374         33           B6093         2007         Chevrolet         Impala         0         472.1         472.1         11522         0.0%         23.4         17         415         22         374         33           B6087         2007         Chevrolet         Impala         0         473.8         473.8         11994         0.0%         25.4         17         432         22         374         33           B6087         2007         Chevrolet         Impala         0         448.4         448.4         13070         0.0%         25.4         17         503         22         374         33           B6092         2007         Chevrolet         Impala         0         3340         3340         9953         0.0%         20.6         17         503         22	09 2006	6 Chevrolet I	Impala	0	628.3	628.3	16794	0.0%	26.7	17	454	20	340	27	459	7
B6091         2007         Chevrolet         Impala         0         2223         2224         0.0%         23.6         17         407         22         374         33           B6093         2007         Chevrolet         Impala         0         303.7         303.7         7206         0.0%         23.7         17         403         22         374         33           B6094         2007         Chevrolet         Impala         0         472.1         1152         0.0%         24.4         17         433         22         374         33           B6087         2007         Chevrolet         Impala         0         472.1         472.1         1091         0.0%         25.4         17         433         22         374         33           B6088         2007         Chevrolet         Impala         0         448.4         449.1         1007         0.0%         29.8         17         503         22         374         33           B6095         2007         Chevrolet         Impala         0         368.8         368.8         11331         0.0%         29.8         17         503         22         374         33	14 2006	6 Chevrolet I	Impala	62	741.2	803.2	21756	7.7%	27.1	17	461	20	340	27	459	7
B6093         2007         Chevrolet         Impala         0         33.7         30.7         30.7         20.6         0.9%         23.7         17         40.3         22         37.4         33           B6094         2007         Chevrolet         Impala         0         472.1         472.1         11522         0.0%         22.4         17         47.3         22         37.4         33           B6087         2007         Chevrolet         Impala         0         472.1         472.1         1152.2         0.0%         22.5         17         43.0         22         37.4         33           B6088         2007         Chevrolet         Impala         0         448.4         449.1         1091.2         0.0%         25.4         17         432         22         37.4         33           B6090         2007         Chevrolet         Impala         0         334.0         334.0         995.3         0.0%         29.8         17         507         22         37.4         33           B6092         2007         Chevrolet         Impala         0         344.0         334.0         7.7         26         200         13         338 <td>25 2006</td> <td>6 Chevrolet I</td> <td>Impala</td> <td>257.15</td> <td>200.5</td> <td>457.7</td> <td>12627</td> <td>56.2%</td> <td>27.6</td> <td>17</td> <td>469</td> <td>20</td> <td>340</td> <td>27</td> <td>459</td> <td>7</td>	25 2006	6 Chevrolet I	Impala	257.15	200.5	457.7	12627	56.2%	27.6	17	469	20	340	27	459	7
B6094         2007         Chevrolet         Impala         0         4721         4721         11522         0.0%         24.4         77         475         22         374         33           B6089         2007         Chevrolet         Impala         0         473.8         473.8         11996         0.0%         25.3         17         430         22         374         33           B6089         2007         Chevrolet         Impala         0         443.4         449.4         10912         0.0%         25.4         17         432         22         374         33           B6098         2007         Chevrolet         Impala         0         448.4         449.4         13070         0.0%         29.6         17         503         22         374         33           B6095         2007         Chevrolet         Impala         0         384.0         133.1         0.0%         30.7         17         507         22         374         33           B6365         2003         Chevrolet         Silverado 1500         1703.4         1444.3         3147.7         2418.4         54.1%         7.7         26         200         13 <t< td=""><td>91 2007</td><td>7 Chevrolet I</td><td>Impala</td><td>0</td><td>222.3</td><td>222.3</td><td>5241</td><td>0.0%</td><td>23.6</td><td>17</td><td>401</td><td>22</td><td>374</td><td>30</td><td>510</td><td>8</td></t<>	91 2007	7 Chevrolet I	Impala	0	222.3	222.3	5241	0.0%	23.6	17	401	22	374	30	510	8
B6089         2007         Chevrolet         Impala         0         473.8         473.8         11996         0.0%         25.3         17         430         22         374         33           B6087         2007         Chevrolet         Impala         0         429.1         4091         0.0%         25.4         17         432         22         374         33           B6098         2007         Chevrolet         Impala         0         448.4         448.4         13070         0.0%         29.6         17         503         22         374         33           B6095         2007         Chevrolet         Impala         0         334.0         3953         0.0%         29.6         17         507         22         374         33           B6092         2007         Chevrolet         Impala         0         368.8         368.8         1331         0.0%         30.7         17         522         23         374         33         18           B5605         2003         Chevrolet         Silverado 1500         0         777.0         777.0         0.0%         12.5         26         332         13         338         11	93 2007	7 Chevrolet I	Impala	0	303.7	303.7	7206	0.0%	23.7	17	403	22	374	30	510	8
B6087         2007         Chevrolet         Impala         0         429.1         429.1         10912         0.0%         25.4         77         432         22         374         33           B6088         2007         Chevrolet         Impala         0         448.4         448.4         13070         0.0%         29.1         17         466         22         374         33           B6090         2007         Chevrolet         Impala         0         334.0         34.0         9953         0.0%         29.8         17         507         22         374         33           B6092         2007         Chevrolet         Impala         0         334.0         34.0         9953         0.0%         29.8         17         507         22         374         33           B6092         2007         Chevrolet         Silverado 1500         0         3510         2003         Chevrolet         Silverado 1500         0         519.0         5950         0.0%         115         26         325         13         336         1           B5510         2003         Chevrolet         Silverado 1500         0         678.8         678.8         8675	94 2007	7 Chevrolet I	Impala	0	472.1	472.1	11522	0.0%	24.4	17	415		374	30	510	8
B6088         2007         Chevrolet         Impala         0         448.4         448.4         13070         0.0%         29.1         17         496         22         374         33           B6090         2007         Chevrolet         Impala         0         190.3         190.3         5535         0.0%         29.6         17         503         22         374         33           B6095         2007         Chevrolet         Impala         0         334.0         39.0         0.9%         29.8         17         507         22         374         33           B6095         2003         Chevrolet         Impala         0         368.8         368.8         11331         0.0%         30.7         17         522         22         374         33           B5606         2003         Chevrolet         Silverado 1500         0         519.0         5950         0.0%         11.5         26         262         13         336         1           B5515         2003         Chevrolet         Silverado 1500         0         678.8         678.8         8675         0.0%         12.8         26         332         13         336         1 </td <td>89 2007</td> <td>7 Chevrolet I</td> <td>Impala</td> <td>0</td> <td>473.8</td> <td>473.8</td> <td>11996</td> <td>0.0%</td> <td>25.3</td> <td>17</td> <td>430</td> <td>22</td> <td></td> <td>30</td> <td>510</td> <td>8</td>	89 2007	7 Chevrolet I	Impala	0	473.8	473.8	11996	0.0%	25.3	17	430	22		30	510	8
B6090         2007         Chevrolet         Impala         0         190.3         190.3         5636         0.0%         29.6         17         503         22         374         33           B6095         2007         Chevrolet         Impala         0         334.0         334.0         9953         0.0%         29.8         17         507         22         374         33           B6092         2007         Chevrolet         Impala         0         368.8         366.8         11331         0.0%         30.7         17         522         22         374         33           B5635         2003         Chevrolet         Silverado 1500         0         519.0         5950         0.0%         11.5         26         296         13         338         1           B5510         2003         Chevrolet         Silverado 1500         0         678.8         678.8         8675         0.0%         12.8         26         332         13         338         1           B5636         2003         Chevrolet         Silverado 1500         0         625.3         625.3         8134         0.0%         13.0         26         338         13	87 2007	7 Chevrolet I	Impala	0	429.1	429.1	10912	0.0%	25.4	17	432	22	374	30	510	8
B6095         2007         Chevrolet         Impala         0         334.0         334.0         9953         0.0%         29.8         17         507         22         374         33           B6092         2007         Chevrolet         Impala         0         368.8         368.8         11331         0.0%         30.7         17         522         22         374         33           B5635         2003         Chevrolet         Silverado 1500         1703.4         1444.3         3147.7         24184         54.1%         7.7         26         200         1/3         338         1           B5515         2003         Chevrolet         Silverado 1500         0         777.0         777.0         9717         0.0%         12.8         26         332         13         336         1           B5515         2003         Chevrolet         Silverado 1500         0         678.8         678.8         8675         0.0%         12.8         26         332         13         336         1           B5504         2003         Chevrolet         Silverado 1500         0         625.3         8134         0.0%         14.7         26         338 <td< td=""><td>88 2007</td><td>7 Chevrolet I</td><td>Impala</td><td>0</td><td>448.4</td><td>448.4</td><td>13070</td><td>0.0%</td><td>29.1</td><td>17</td><td>496</td><td>22</td><td>374</td><td>30</td><td>510</td><td>8</td></td<>	88 2007	7 Chevrolet I	Impala	0	448.4	448.4	13070	0.0%	29.1	17	496	22	374	30	510	8
B6092         2007         Chevrolet         Impala         0         368.8         368.8         11331         0.0%         30.7         17         522         22         374         33           B5635         2003         Chevrolet         Silverado 1500         1703.4         1444.3         3147.7         24184         54.1%         7.7         26         200         1/3         336         1           B5606         2003         Chevrolet         Silverado 1500         0         519.0         5950         0.0%         11.5         26         298         1/3         336         1           B5515         2003         Chevrolet         Silverado 1500         0         777.0         777.0         9717         0.0%         12.8         26         332         1/3         338         1           B5504         2003         Chevrolet         Silverado 1500         0         678.8         678.8         8675         0.0%         12.8         26         334         1/3         336         1           B5604         2003         Chevrolet         Silverado 1500         0         625.3         8134         0.0%         14.7         26         387         1/3	90 2007	7 Chevrolet I	Impala	0	190.3	190.3	5636	0.0%	29.6	17	503	22	374	30	510	8
B5635         2003         Chevrolet         Silverado 1500         1703.4         1444.3         3147.7         24184         54.1%         7.7         26         200         13         336         1           B5606         2003         Chevrolet         Silverado 1500         0         519.0         5950         0.0%         11.5         26         296         13         336         1           B5515         2003         Chevrolet         Silverado 1500         0         777.0         9717         0.0%         12.5         26         332         13         336         1           B5510         2003         Chevrolet         Silverado 1500         0         678.8         678.8         8675         0.0%         12.8         26         332         13         336         1           B5565         2003         Chevrolet         Silverado 1500         0         625.3         673.3         8134         0.0%         13.0         26         337         13         336         1           B5616         2003         Chevrolet         Silverado 1500         0         980.8         14622         0.0%         14.9         26         387         13         336	95 2007	7 Chevrolet I	Impala	0	334.0	334.0	9953	0.0%	29.8	17	507	22	374	30	510	8
Bisol         2003         Chevrolet         Silverado 1500         0         519.0         5950         0.0%         11.5         26         296         73         336         1           Bisol         2003         Chevrolet         Silverado 1500         0         777.0         777.0         9717         0.0%         12.5         26         325         13         336         1           Bisol         2003         Chevrolet         Silverado 1500         0         678.8         678.8         8675         0.0%         12.8         26         332         13         336         1           Bisol         2003         Chevrolet         Silverado 1500         446         874.4         1320.4         16956         33.8%         12.8         26         334         13         336         1           Bisol         2003         Chevrolet         Silverado 1500         0         625.3         625.3         8134         0.0%         14.7         26         381         13         336         1           Bisol         2003         Chevrolet         Silverado 1500         0         685.0         10270         0.0%         15.0         26         390         13	92 2007	7 Chevrolet I	Impala	0	368.8	368.8	11331	0.0%	30.7	17	522	22	374	30	510	8
Bissing         2003         Chevrolet         Silverado 1500         0         777.0         777.0         9717         0.0%         12.5         26         325         13         336         1           Bissing         2003         Chevrolet         Silverado 1500         0         678.8         678.8         8675         0.0%         12.8         26         332         13         338         1           Bissing         2003         Chevrolet         Silverado 1500         446         874.4         1320.4         16956         33.8%         12.8         26         334         13         338         1           Bissing         2003         Chevrolet         Silverado 1500         0         625.3         625.3         8134         0.0%         14.7         26         381         13         338         1           Bissing         2003         Chevrolet         Silverado 1500         0         1269.0         18618         0.0%         14.7         26         386         13         338         1           Bissing         2003         Chevrolet         Silverado 1500         0         880.8         14622         0.0%         15.0         26         390 <t< td=""><td>35 2003</td><td>3 Chevrolet 5</td><td>Silverado 1500</td><td>1703.4</td><td>1444.3</td><td>3147.7</td><td>24184</td><td>54.1%</td><td>7.7</td><td>26</td><td>200</td><td>13</td><td>338</td><td>17</td><td>442</td><td>4</td></t<>	35 2003	3 Chevrolet 5	Silverado 1500	1703.4	1444.3	3147.7	24184	54.1%	7.7	26	200	13	338	17	442	4
Bisto         2003         Chevrolet         Silverado         1500         0         678.8         678.8         8675         0.0%         12.8         26         332         13         338         1           B5510         2003         Chevrolet         Silverado         1500         446         874.4         1320.4         16956         33.8%         12.8         26         334         13         338         1           B5604         2003         Chevrolet         Silverado         1500         0         625.3         625.3         8134         0.0%         13.0         26         338         13         338         1           B5604         2003         Chevrolet         Silverado         1500         0         1269.0         18618         0.0%         14.7         26         388         13         338         1           B5519         2003         Chevrolet         Silverado         1500         0         980.8         14622         0.0%         14.9         26         388         13         338         1           B5616         2003         Chevrolet         Silverado         1500         0         840.3         12612         0.0%	06 2003	3 Chevrolet 5	Silverado 1500	0	519.0	519.0	5950	0.0%	11.5	26	298	13	338	17	442	4
B585         2003         Chevrolet         Silverado 1500         446         874.4         1320.4         16956         33.8%         12.8         26         334         13         336         1           B585         2003         Chevrolet         Silverado 1500         0         625.3         625.3         8134         0.0%         13.0         26         338         13         336         1           B5636         2003         Chevrolet         Silverado 1500         0         1269.0         1269.0         18618         0.0%         14.7         26         381         13         338         1           B5519         2003         Chevrolet         Silverado 1500         0         980.8         980.8         14622         0.0%         14.9         26         388         13         338         1           B5513         2003         Chevrolet         Silverado 1500         0         840.3         840.3         12612         0.0%         15.0         26         390         13         338         1           B5564         2003         Chevrolet         Silverado 1500         11         1080.4         1091.4         16559         1.0%         15.2         2	15 2003	3 Chevrolet 5	Silverado 1500	0	777.0	777.0	9717	0.0%	12.5	26	325	13	338	17	442	4
B55852003ChevroletSilverado 1500446874.41320.41695633.8%12.826334133361B56042003ChevroletSilverado 15000625.3625.381340.0%13.026338133381B56362003ChevroletSilverado 150001269.01269.0186180.0%14.726381133381B55192003ChevroletSilverado 15000980.8980.8146220.0%14.926388133361B55132003ChevroletSilverado 15000685.0102700.0%15.026390133361B56462003ChevroletSilverado 15000840.3840.3126120.0%15.026390133361B55862003ChevroletSilverado 1500111080.41091.4165591.0%15.226394133381B55882003ChevroletSilverado 15000798.0798.0122630.0%15.426400133381B56142003ChevroletSilverado 15000470.0470.077500.0%16.526429133361B56302003ChevroletSilverado 15000470.0475.0563.024.3%17.3	10 2003	3 Chevrolet 5	Silverado 1500	0	678.8	678.8	8675	0.0%	12.8	26	332	13	338	17	442	4
Boos         Color         Color <thc< td=""><td></td><td>3 Chevrolet 5</td><td>Silverado 1500</td><td>446</td><td>874.4</td><td>1320.4</td><td>16956</td><td>33.8%</td><td>12.8</td><td>26</td><td>334</td><td>13</td><td>338</td><td>17</td><td>442</td><td>4</td></thc<>		3 Chevrolet 5	Silverado 1500	446	874.4	1320.4	16956	33.8%	12.8	26	334	13	338	17	442	4
Bosol         2003         Chevrolet         Silverado 1500         0         980.8         980.8         14622         0.0%         14.9         26         388         13         336         1           B5519         2003         Chevrolet         Silverado 1500         0         685.0         685.0         10270         0.0%         15.0         26         390         13         336         1           B5514         2003         Chevrolet         Silverado 1500         0         840.3         840.3         12612         0.0%         15.0         26         390         13         336         1           B5586         2003         Chevrolet         Silverado 1500         11         1080.4         1091.4         16559         1.0%         15.2         26         394         13         336         1           B5588         2003         Chevrolet         Silverado 1500         0         798.0         798.0         12263         0.0%         15.4         26         400         13         336         1           B5514         2003         Chevrolet         Silverado 1500         0         470.0         470.0         7750         0.0%         16.5         26 <td>04 2003</td> <td>3 Chevrolet 5</td> <td>Silverado 1500</td> <td>0</td> <td>625.3</td> <td>625.3</td> <td>8134</td> <td>0.0%</td> <td>13.0</td> <td>26</td> <td>338</td> <td>13</td> <td>338</td> <td>17</td> <td>442</td> <td>4</td>	04 2003	3 Chevrolet 5	Silverado 1500	0	625.3	625.3	8134	0.0%	13.0	26	338	13	338	17	442	4
B5513         2003         Chevrolet         Silverado 1500         0         685.0         10270         0.0%         15.0         26         390         13         336         1           B5616         2003         Chevrolet         Silverado 1500         0         840.3         840.3         12612         0.0%         15.0         26         390         13         336         1           B5586         2003         Chevrolet         Silverado 1500         11         1080.4         1091.4         16559         1.0%         15.2         26         394         13         336         1           B5588         2003         Chevrolet         Silverado 1500         0         798.0         798.0         12263         0.0%         15.4         26         400         13         336         1           B5588         2003         Chevrolet         Silverado 1500         60.5         566.2         626.7         9870         9.7%         15.7         26         409         13         336         1           B5514         2003         Chevrolet         Silverado 1500         0         470.0         470.0         7750         0.0%         16.5         26         429 <td>36 2003</td> <td>3 Chevrolet S</td> <td>Silverado 1500</td> <td>0</td> <td>1269.0</td> <td>1269.0</td> <td>18618</td> <td>0.0%</td> <td>14.7</td> <td>26</td> <td>381</td> <td>13</td> <td>338</td> <td>17</td> <td>442</td> <td>4</td>	36 2003	3 Chevrolet S	Silverado 1500	0	1269.0	1269.0	18618	0.0%	14.7	26	381	13	338	17	442	4
B5616         2003         Chevrolet         Silverado 1500         0         840.3         12612         0.0%         15.0         26         390         13         336         1           B5616         2003         Chevrolet         Silverado 1500         11         1080.4         1091.4         16559         1.0%         15.2         26         394         13         336         1           B5586         2003         Chevrolet         Silverado 1500         0         798.0         7263         0.0%         15.4         26         400         13         336         1           B5588         2003         Chevrolet         Silverado 1500         0         798.0         798.0         12263         0.0%         15.4         26         400         13         336         1           B5477         2003         Chevrolet         Silverado 1500         0         470.0         470.0         9.7%         15.7         26         409         13         336         1           B5514         2003         Chevrolet         Silverado 1500         0         470.0         470.0         7750         0.0%         16.5         26         429         13         336	19 2003	3 Chevrolet S	Silverado 1500	0	980.8	980.8	14622	0.0%	14.9	26	388	13	338	17	442	4
B55862003ChevroletSilverado 1500111080.41091.4165591.0%15.226394133361B55882003ChevroletSilverado 15000798.0798.0122630.0%15.426400133361B54772003ChevroletSilverado 150060.5566.2626.798709.7%15.726409133361B55142003ChevroletSilverado 15000470.0470.077500.0%16.526429133361B56302003ChevroletSilverado 15001155.11155.1191740.0%16.626432133361B56052003ChevroletSilverado 150079245.5324.5563024.3%17.326459133361B55202003ChevroletSilverado 15000657.0657.0118600.0%18.126469133361B56152003ChevroletSilverado 15006813.9819.9166210.7%20.326527133361B55402003ChevroletSilverado 15000748.9748.9179530.0%24.026623133381	13 2003	3 Chevrolet S	Silverado 1500	0	685.0	685.0	10270	0.0%	15.0	26	390	13	338	17	442	4
B5588         2003         Chevrolet         Silverado 1500         0         798.0         798.0         12263         0.0%         15.4         26         400         13         336         1           B5588         2003         Chevrolet         Silverado 1500         60.5         566.2         626.7         9870         9.7%         15.7         26         409         13         336         1           B5514         2003         Chevrolet         Silverado 1500         0         470.0         470.0         7750         0.0%         16.5         26         429         13         336         1           B5630         2003         Chevrolet         Silverado 1500         1155.1         19174         0.0%         16.6         26         432         13         336         1           B5605         2003         Chevrolet         Silverado 1500         79         245.5         324.5         5630         24.3%         17.3         26         459         13         336         1           B5615         2003         Chevrolet         Silverado 1500         0         657.0         657.0         11860         0.0%         18.1         26         469         13 <td>16 2003</td> <td>3 Chevrolet S</td> <td>Silverado 1500</td> <td>0</td> <td>840.3</td> <td>840.3</td> <td>12612</td> <td>0.0%</td> <td>15.0</td> <td>26</td> <td>390</td> <td>13</td> <td>338</td> <td>17</td> <td>442</td> <td>4</td>	16 2003	3 Chevrolet S	Silverado 1500	0	840.3	840.3	12612	0.0%	15.0	26	390	13	338	17	442	4
B5588         2003         Chevrolet         Silverado 1500         0         798.0         12263         0.0%         15.4         26         400         13         336         1           B5477         2003         Chevrolet         Silverado 1500         60.5         566.2         626.7         9870         9.7%         15.7         26         409         13         336         1           B514         2003         Chevrolet         Silverado 1500         0         470.0         470.0         7750         0.0%         16.5         26         429         13         336         1           B5630         2003         Chevrolet         Silverado 1500         1155.1         1974         0.0%         16.6         26         432         13         336         1           B5605         2003         Chevrolet         Silverado 1500         79         245.5         324.5         5630         24.3%         17.3         26         457         13         336         1           B5502         2003         Chevrolet         Silverado 1500         0         657.0         657.0         11860         0.0%         18.1         26         469         13         336	86 2003	3 Chevrolet S	Silverado 1500	11	1080.4	1091.4	16559	1.0%	15.2	26	394	13	338	17	442	4
B55142003ChevroletSilverado 15000470.077500.0%16.526429133361B56302003ChevroletSilverado 15001155.11155.1191740.0%16.626432133361B56052003ChevroletSilverado 150079245.5324.5563024.3%17.326457133361B55202003ChevroletSilverado 15000657.0657.0118600.0%18.126469133361B56152003ChevroletSilverado 15006813.9819.9166210.7%20.326527133361B55402003ChevroletSilverado 15000748.9748.9179530.0%24.026623133361		3 Chevrolet S	Silverado 1500	0	798.0	798.0	12263	0.0%	15.4	26	400	13	338	17	442	4
B5630         2003         Chevrolet         Silverado 1500         1155.1         19174         0.0%         16.6         26         432         13         336         1           B5630         2003         Chevrolet         Silverado 1500         79         245.5         324.5         5630         24.3%         17.3         26         451         13         336         1           B5520         2003         Chevrolet         Silverado 1500         0         657.0         11860         0.0%         18.1         26         469         13         336         1           B5515         2003         Chevrolet         Silverado 1500         6         813.9         819.9         16621         0.7%         20.3         26         527         13         336         1           B5540         2003         Chevrolet         Silverado 1500         0         748.9         748.9         17953         0.0%         24.0         26         623         13         336         1	77 2003	3 Chevrolet S	Silverado 1500	60.5	566.2	626.7	9870	9.7%	15.7	26	409	13	338	17	442	4
B5605         2003         Chevrolet         Silverado 1500         79         245.5         324.5         5630         24.3%         17.3         26         451         13         336         1           B5605         2003         Chevrolet         Silverado 1500         0         657.0         11860         0.0%         18.1         26         469         13         336         1           B5615         2003         Chevrolet         Silverado 1500         6         813.9         819.9         16621         0.7%         20.3         26         527         13         336         1           B5540         2003         Chevrolet         Silverado 1500         0         748.9         17953         0.0%         24.0         26         623         13         336         1	14 2003	3 Chevrolet	Silverado 1500	0	470.0	470.0	7750	0.0%	16.5	26	429	13	338	17	442	4
B56052003ChevroletSilverado 150079245.5324.5563024.3%17.326457133361B55202003ChevroletSilverado 15000657.0657.0118600.0%18.126469133361B56152003ChevroletSilverado 15006813.9819.9166210.7%20.326527133361B55402003ChevroletSilverado 15000748.9748.9179530.0%24.026623133361	30 2003	3 Chevrolet	Silverado 1500		1155.1	1155.1	19174	0.0%	16.6	26	432	13	338	17	442	4
B5520         2003         Chevrolet         Silverado 1500         0         657.0         11860         0.0%         18.1         26         469         13         338         1           B5615         2003         Chevrolet         Silverado 1500         6         813.9         819.9         16621         0.7%         20.3         26         527         13         338         1           B5540         2003         Chevrolet         Silverado 1500         0         748.9         17953         0.0%         24.0         26         623         13         338         1			Silverado 1500	79	245.5	324.5	5630	24.3%	17.3	26	451	13	338	17	442	4
B5615         2003         Chevrolet         Silverado 1500         6         813.9         819.9         16621         0.7%         20.3         26         527         13         338         1           B5540         2003         Chevrolet         Silverado 1500         0         748.9         17953         0.0%         24.0         26         623         13         338         1		3 Chevrolet	Silverado 1500	0	657.0	657.0	11860	0.0%	18.1	26	469	13	338	17	442	4
		3 Chevrolet	Silverado 1500	6	813.9	819.9	16621	0.7%	20.3	26	527	13	338	17	442	4
	40 2003	3 Chevrolet	Silverado 1500	0	748.9	748.9	17953	0.0%	24.0	26	623	13	338	17	442	4
B5742 2004 Chevrolet Silverado 1500 292.1 422.2 714.3 7729 40.9% 10.8 26 281 13 338 1	42 2004	4 Chevrolet 5	Silverado 1500	292.1	422.2	714.3	7729	40.9%	10.8	26	281	13	338	17	442	4
B5735 2004 Chevrolet Silverado 1500 799.7 103.4 903.1 11629 88.5% 12.9 26 335 13 336 1	35 2004	4 Chevrolet	Silverado 1500	799.7	103.4	903.1	11629	88.5%	12.9	26	335	13	338	17	442	4
B5716 2004 Chevrolet Silverado 1500 0 483.1 483.1 6279 0.0% 13.0 26 338 13 336 1	16 2004	4 Chevrolet	Silverado 1500	0	483.1	483.1	6279	0.0%	13.0	26	338	13	338	17	442	4
B5733 2004 Chevrolet Silverado 1500 242.8 693.0 935.8 12450 25.9% 13.3 26 346 13 336 1	33 2004	4 Chevrolet	Silverado 1500	242.8	693.0	935.8	12450	25.9%	13.3	26	346	13	338	17	442	4
B5686 2004 Chevrolet Silverado 1500 10 1817.2 1827.2 24500 0.5% 13.4 26 349 13 336 1	86 2004	4 Chevrolet S	Silverado 1500	10	1817.2	1827.2	24500	0.5%	13.4	26	349	13	338	17	442	4
			Silverado 1500	0	941.4	941.4	13300	0.0%	14.1	26	367	13	338	17	442	4
B5750 2004 Chevrolet Silverado 1500 5 697.2 702.2 10150 0.7% 14.5 26 376 13 338 1	50 2004	4 Chevrolet	Silverado 1500	5	697.2	702.2	10150	0.7%	14.5	26	376	13	338	17	442	4
	65 2004	4 Chevrolet	Silverado 1500	0				0.0%	14.8	26	385	13		17	442	4
B5764 2004 Chevrolet Silverado 1500 0 376.4 376.4 5574 0.0% 14.8 26 385 13 338 1				0										17	442	4
	17 2004		Silverado 1500	0				0.0%	15.7					17	442	4
B5699 2004 Chevrolet Silverado 1500 0 1189.5 1189.5 19150 0.0% 16.1 26 419 13 338 1	99 2004	4 Chevrolet	Silverado 1500	0	1189.5	1189.5	19150	0.0%	16.1	26	419	13	338	17	442	4
			Silverado 1500											17	442	4
B5736 2004 Chevrolet Silverado 1500 0 965.5 965.5 16912 0.0% 17.5 26 455 13 338 1											455			17	442	4
				-										17	442	4

B5715         200           B5688         200           B5741         200           B5910         200           B5911         200           B5913         200           B5933         200           B5983         200	04 ( 05 ( 05 ( 05 ( 05 ( 05 ( 05 (	Chevrolet Chevrolet Chevrolet Chevrolet Chevrolet	Silverado 1500 Silverado 1500 Silverado 1500	0	11	(Gallons)	Mileage	Percent E-85 Usage	Miles Per Gallon	Capacity (Gallons)	Miles per Tank	MPG with E-85* ONLY	Miles per Tank of E-85 ONLY	MPG with Gasoline* ONLY	Tank of Gasoline ONLY	MPG Difference
B5741         200           B5910         200           B5912         200           B5913         200           B5913         200           B5933         200           B5983         200	05 ( 05 ( 05 ( 05 ( 05 ( 05 ( 05 (	Chevrolet Chevrolet Chevrolet	Silverado 1500	0	661.1	661.1	13409	0.0%	20.3	26	527	13	338	17	442	4
B5910         200           B5912         200           B5911         200           B5913         200           B5933         200           B5983         200	05 ( 05 ( 05 ( 05 ( 05 ( 05 (	Chevrolet Chevrolet		0	608.3	608.3	12530	0.0%	20.6	26	536	13	338	17	442	4
B5912200B5911200B5913200B5933200B5983200	05 ( 05 ( 05 ( 05 ( 05 (	Chevrolet		0	808.3	808.3	6676	0.0%	8.3	26	215	12	312	16	416	4
B5911200B5913200B5933200B5983200	05 ( 05 ( 05 (		Silverado 1500	15	540.3	555.3	5145	2.7%	9.3	26	241	12	312	16	416	4
B5913200B5933200B5983200	05 ( 05 (		Silverado 1500	68.06	401.8	469.9	6052	14.5%	12.9	26	335	12	312	16	416	4
B5933 200 B5983 200	05 (	Chevrolet	Silverado 1500	0	1039.6	1039.6	13586	0.0%	13.1	26	340	12	312	16	416	4
B5983 200		Chevrolet	Silverado 1500	0	517.0	517.0	8049	0.0%	15.6	26	405	12	312	16	416	4
	05 (	Chevrolet	Silverado 1500	0	822.6	822.6	15852	0.0%	19.3	26	501	12	312	16	416	4
DE01E 200	00 0	Chevrolet	Silverado 1500	0	97.3	97.3	2847	0.0%	29.3	26	761	12	312	16	416	4
B5915 200	05 (	Chevrolet	Silverado 1500	0	1271.7	1271.7	13323	0.0%	10.5	26	272	15	390	18	468	3
B5900 200	05 (	Chevrolet	Silverado 1500	0	763.0	763.0	8203	0.0%	10.8	26	280	15	390	18	468	3
B5834 200	05 (	Chevrolet	Silverado 1500	0	738.8	738.8	9176	0.0%	12.4	26	323	15	390	18	468	3
B5924 200	05 (	Chevrolet	Silverado 1500	1477	7.0	1484.0	18433	99.5%	12.4	26	323	15	390	18	468	3
B5899 200	05 (	Chevrolet	Silverado 1500	0	294.0	294.0	3653	0.0%	12.4	26	323	15	390	18	468	3
B5816 200	05 (	Chevrolet	Silverado 1500	221.5	531.2	752.7	9383	29.4%	12.5	26	324	15	390	18	468	3
B5890 200	05 (	Chevrolet	Silverado 1500	0	1472.0	1472.0	18902	0.0%	12.8	26	334	15	390	18	468	3
B5832 200	05 (	Chevrolet	Silverado 1500	0	816.0	816.0	10610	0.0%	13.0	26	338	15	390	18	468	3
B5836 200	05 (	Chevrolet	Silverado 1500	0	848.0	848.0	11072	0.0%	13.1	26	339	15	390	18	468	3
B5923 200	05 (	Chevrolet	Silverado 1500	984	98.0	1082.0	14388	90.9%	13.3	26	346	15	390	18	468	3
B5819 200	05 (	Chevrolet	Silverado 1500	0	430.6	430.6	5750	0.0%	13.4	26	347	15	390	18	468	3
B5842 200	05 (	Chevrolet	Silverado 1500	0	659.4	659.4	8846	0.0%	13.4	26	349	15	390	18	468	3
B5840 200	05 (	Chevrolet	Silverado 1500	0	1235.0	1235.0	17428	0.0%	14.1	26	367	15	390	18	468	3
B5919 200	05 (	Chevrolet	Silverado 1500	695	71.5	766.5	10827	90.7%	14.1	26	367	15	390	18	468	3
B5830 200	05 (	Chevrolet	Silverado 1500	252.2	287.7	539.9	7640	46.7%	14.2	26	368	15	390	18	468	3
B5887 200		Chevrolet	Silverado 1500	0	878.0	878.0	12499	0.0%	14.2	26	370	15	390	18		3
B5922 200	05 (	Chevrolet	Silverado 1500	405	423.8	828.8	11983	48.9%	14.5	26	376	15	390	18	468	3
B5920 200		Chevrolet	Silverado 1500	555	6.0	561.0	8261	98.9%	14.7	26	383	15	390	18	468	3
B5835 200	05 (	Chevrolet	Silverado 1500	0	889.7	889.7	13135	0.0%	14.8	26	384	15	390	18	468	3
B5918 200		Chevrolet	Silverado 1500	0	809.5	809.5	11969	0.0%	14.8	26	384	15	390	18	468	3
B5886 200		Chevrolet	Silverado 1500	191	363.7	554.7	8267	34.4%		26	387	15	390	18	468	3
B5839 200		Chevrolet	Silverado 1500	0	1019.5	1019.5	15283	0.0%	15.0	26	390	15	390	18	468	3
B5896 200		Chevrolet	Silverado 1500	0	949.0	949.0	14274	0.0%	15.0	26	391	15	390	18		3
B5847 200		Chevrolet	Silverado 1500	0	672.2	672.2	10264	0.0%	15.3	26	397	15	390	18	468	3
B5846 200		Chevrolet	Silverado 1500	0	457.9	457.9	7063	0.0%	15.4	26	401	15	390	18	468	3
B5838 200		Chevrolet	Silverado 1500	21.23	1395.4	1416.6	21957	1.5%	15.5	26	403	15	390	18	468	3
B5833 200		Chevrolet	Silverado 1500	46.3	1396.0	1442.3	22375	3.2%	15.5	26	403	15	390	18		3
B5850 200		Chevrolet	Silverado 1500	0	1354.3	1354.3	21033	0.0%	15.5	26	404	15	390	18	468	3
B5914 200	05 (	Chevrolet	Silverado 1500	0	1105.6	1105.6	17361	0.0%	15.7	26	408	15	390	18	468	3
B5843 200		Chevrolet	Silverado 1500	0	832.2	832.2	13259	0.0%	15.9	26	414	15	390	18	468	3
B5841 200		Chevrolet	Silverado 1500	0	763.0	763.0	12164	0.0%		26	415	15	390	18		3
B5901 200		Chevrolet	Silverado 1500	53.6	458.7	512.3	8435	10.5%		26	428	15	390	18	468	3
B5818 200		Chevrolet	Silverado 1500	0	810.5	810.5	13893	0.0%		26	446	15	390	18	468	3
B5848 200		Chevrolet	Silverado 1500	0	896.3	896.3	15560	0.0%	17.4	26	451	15	390	18	468	3
B5891 200		Chevrolet	Silverado 1500	0	1158.4	1158.4	20345	0.0%		26	457	15	390	18	468	3
B5893 200		Chevrolet	Silverado 1500	0	1047.0	1047.0	19000	0.0%	18.1	26	472	15	390	18	468	3
B5837 200		Chevrolet	Silverado 1500	0	427.8	427.8	7808	0.0%	18.3	26	475	15	390	18		3
B5897 200		Chevrolet	Silverado 1500	0	543.5	543.5	10178	0.0%		26	487	15	390	18		3
B5916 200		Chevrolet	Silverado 1500	0	902.2	902.2	18100	0.0%	20.1	26	522	15	390	18	468	3
B5894 200		Chevrolet	Silverado 1500	0	516.0	516.0	10616	0.0%	20.6	26	535	15	390	18	468	3

Unit	Year	Make	Model	E-85 (Gallons)	Gas (Gallons)	Total Fuel (Gallons)	Mileage	Percent E-85 Usage	Miles Per Gallon	Fuel Tank Capacity (Gallons)	Miles per Tank	MPG with E-85* ONLY	Miles per Tank of E-85 ONLY	MPG with Gasoline* ONLY	Miles per Tank of Gasoline ONLY	MPG Difference
B5921	2005	Chevrolet	Silverado 1500	30	425.1	455.1	11838	6.6%	26.0	26	676	15	390	18	468	3
B5849	2005	Chevrolet	Silverado 1500	535	150.0	685.0	18778	78.1%	27.4	26	713	15	390	18	468	3
B5879	2005	Chevrolet	Silverado 1500	0	433.0	433.0	12496	0.0%	28.9	26	750	15	390	18	468	3
B5907	2005	Chevrolet	Silverado 1500	1658	88.0	1746.0	19200	95.0%	11.0	26	286	15	390	18	468	3
B5908	2005	Chevrolet	Silverado 1500	0	905.0	905.0	13550	0.0%	15.0	26	389	15	390	18	468	3
B6023	2006	Chevrolet	Silverado 1500	546	196.0	742.0	8091	73.6%	10.9	26	284	15	390	18	468	3
B6005	2006	Chevrolet	Silverado 1500	0	1286.0	1286.0	15735	0.0%	12.2	26	318	15	390	18	468	3
B6030	2006	Chevrolet	Silverado 1500	0	694.3	694.3	8815	0.0%	12.7	26	330	15	390	18	468	3
B6019	2006	Chevrolet	Silverado 1500	2129.52	252.2	2381.7	31169	89.4%	13.1	26	340	15	390	18	468	3
B6027	2006	Chevrolet	Silverado 1500	0	1493.0	1493.0	20140	0.0%	13.5	26	351	15	390	18	468	3
B6006	2006	Chevrolet	Silverado 1500	0	536.5	536.5	7453	0.0%	13.9	26	361	15	390	18	468	3
B6002	2006	Chevrolet	Silverado 1500	0	775.6	775.6	11365	0.0%	14.7	26	381	15	390	18	468	3
B6016	2006	Chevrolet	Silverado 1500	468	400.2	868.2	12795	53.9%	14.7	26	383	15	390	18	468	3
B6022	2006	Chevrolet	Silverado 1500	884	29.0	913.0	13494	96.8%	14.8	26	384	15	390	18		3
B6020	2006	Chevrolet	Silverado 1500	106.5	883.4	989.9	15165	10.8%	15.3	26	398	15	390	18		3
B6028	2006	Chevrolet	Silverado 1500	98.05	962.9	1061.0	16858	9.2%	15.9	26	413	15	390	18	468	3
B6003	2006	Chevrolet	Silverado 1500	0	354.0	354.0	5709	0.0%	16.1	26	419	15	390	18	468	3
B6024	2006	Chevrolet	Silverado 1500	11.1	1052.0	1063.1	17682	1.0%	16.6	26	432	15	390	18		3
B6001	2006	Chevrolet	Silverado 1500	0	679.7	679.7	11712	0.0%	17.2	26	448	15	390	18	468	3
B6007	2006	Chevrolet	Silverado 1500	0	844.3	844.3	15059	0.0%	17.8	26	464	15	390	18	468	3
B6031	2006	Chevrolet	Silverado 1500	0	947.9	947.9	17747	0.0%	18.7	26	487	15	390	18	468	3
B6029	2006	Chevrolet	Silverado 1500	0	380.5	380.5	7726	0.0%	20.3	26	528	15	390	18	468	3
B6015	2006	Chevrolet	Silverado 1500	0	1227.7	1227.7	27796	0.0%	22.6	26	589	15	390	18	468	3
B6021	2006	Chevrolet	Silverado 1500	24	513.0	537.0	13250	4.5%	24.7	26	642	15	390	18	468	3
B5747	2004	Dodge	Ram1500	294.31	907.7	1202.0	11457	24.5%	9.5		248	10	260	14	364	4
B5745	2004	Dodge	Ram1500	477.4	208.8	686.2	6634	69.6%	9.7	26	251	10	260	14	364	4
B5697	2004	Dodge	Ram1500	0		345.2	3357	0.0%	9.7	26	253	10	260	14	364	4
B5744	2004	Dodge	Ram1500	0		1043.5	11551	0.0%	11.1	26	288	10	260	14	364	4
B5719	2004	Dodge	Ram1500	0		628.0	7190	0.0%	11.4	26	298	10	260	14	364	4
B5698	2004	Dodge	Ram1500	0		694.6	8665	0.0%	12.5	26	324	10	260	14	364	4
B5714	2004	Dodge	Ram1500	0	566.9	566.9	7130	0.0%	12.6	26	327	10	260	14	364	4
B5746	2004	Dodge	Ram1500	0		1137.7	14380	0.0%	12.6	26	329	10	260	14	364	4
B5713	2004	Dodge	Ram1500	0		644.5	8150	0.0%	12.6	26	329	10	260	14	364	4
B5761	2004	Dodge	Ram1500	11	1079.4	1090.4	14123	1.0%	13.0	26	337	10	260	14	364	4
B5629	2004	Dodge	Ram1500	36	2437.1	2473.1	32250	1.5%	13.0	26	339	10	260	14	364	4
B5754	2004	Dodge	Ram1500	0		1325.0	17325	0.0%	13.1	26	340	10	260	14	364	4
B5718	2004	Dodge	Ram1500	0	430.9	430.9	5720	0.0%	13.3	26	345	10	260	14	364	4
B5725	2004	Dodge	Ram1500	0	452.1	452.1	6074	0.0%	13.4	26	349	10	260	14	364	4
B5748	2004	Dodge	Ram1500	137.8	591.0	728.8	9822	18.9%	13.5	26	350	10	260	14	364	4
B5749	2004	Dodge	Ram1500	50.5	1562.7	1613.2	22500	3.1%	13.9	26	363	10	260	14	364	4
B5695	2004	Dodge	Ram1500	0	499.1	499.1	7420	0.0%	14.9	-	387	10	260	14	364	4
B5758	2004	Dodge	Ram1500	259	583.1	842.1	13231	30.8%	15.7	26	409	10	260	14	364	4
B5696	2004	Dodge	Ram1500	0	456.6	456.6	7279	0.0%	15.9	26	415	10	260	14	364	4
B5763	2004	Dodge	Ram1500	0	621.2	621.2	11822	0.0%	19.0	26	495	10	260	14	364	4
B5620	2003	Dodge	Grand Caravan	111	263.6	374.6	5571	29.6%	14.9	20	297	15	300	23	460	8
B5484	2003	Dodge	Grand Caravan	195.6	229.3	424.9	8383	46.0%	19.7	20	395	15	300	23	460	8
B5404	2002	Dodge	Grand Caravan SE	0		537.6	12399	0.0%	23.1	20	461	15	300	21	420	6
B6032	2006	Dodge	Grand Caravan SE	0	357.8	357.8	6810	0.0%	19.0	20	381	15	300	23	460	8
B5052	2001	Dodge	Grand Caravan Sport	726	99.0	825.0	8462	88.0%	10.3	20	205	15	300	21	420	6

Unit	Year	Make	Model	• •	Gas (Gallons)	Total Fuel (Gallons)	Mileage	Percent E-85 Usage	Miles Per Gallon	Fuel Tank Capacity (Gallons)	Miles per Tank	MPG with E-85* ONLY	Miles per Tank of E-85 ONLY	ONLY	Miles per Tank of Gasoline ONLY	MPG Difference
B5226	2001	Dodge	Grand Caravan Sport	389	152.1	541.1	7040	71.9%		20		15	300	21	420	6
B5053	2001	Dodge	Grand Caravan Sport	252	272.5	524.5	8744	48.0%	16.7	20		15	300	21	420	6
B5227	2001	Dodge	Grand Caravan Sport	89	137.4	226.4	4744	39.3%		20		15	300	21	420	6
B5374	2002	Dodge	Grand Caravan Sport	17	413.5	430.5	9168	3.9%	21.3	20	426	15	300	21	420	6
B5581	2003	Dodge	Stratus	368.28	76.1	444.4	9390	82.9%		16		18	288	24	384	6
B5560	2003	Dodge	Stratus	4.5	471.6	476.1	10327	0.9%		16		18	288	24	384	6
B5483	2003	Dodge	Stratus	615.1	51.5	666.6	14500	92.3%		16		18	288	24	384	6
B5562	2003	Dodge	Stratus	0	380.4	380.4	9524	0.0%		16		18	288	24	384	6
B5572	2003	Dodge	Stratus	97.66	198.4	296.0	7719	33.0%		16		18	288	24	384	6
B5500	2003	Dodge	Stratus	0	630.8	630.8	20635	0.0%		16		18	288	24	384	6
B5594	2004	Dodge	Stratus	107.25	237.6	344.9	5458	31.1%	15.8	16	253	18	288	24	384	6
B5573	2004	Dodge	Stratus	24	364.3	388.3	6153	6.2%	15.8	16	254	18	288	24	384	6
B5576	2004	Dodge	Stratus	50	269.7	319.7	5360	15.6%	16.8	16		18	288	24	384	6
B5596	2004	Dodge	Stratus	403	243.2	646.2	12133	62.4%	18.8	16	300	18	288	24	384	6
B5580	2004	Dodge	Stratus	443	201.1	644.1	12384	68.8%	19.2	16	308	18	288	24	384	6
B5582	2004	Dodge	Stratus	313	156.2	469.2	9159	66.7%	19.5	16	312	18	288	24	384	6
B5659	2004	Dodge	Stratus	0	340.7	340.7	6839	0.0%	20.1	16	321	18	288	24	384	6
B5622	2004	Dodge	Stratus	383	125.8	508.8	10573	75.3%	20.8	16	332	18	288	24	384	6
B5626	2004	Dodge	Stratus		451.0	451.0	9460	0.0%	21.0	16	336	18	288	24	384	6
B5608	2004	Dodge	Stratus	255.3	138.0	393.3	8306	64.9%	21.1	16	338	18	288	24	384	6
B5541	2004	Dodge	Stratus	0	560.5	560.5	11892	0.0%	21.2	16	339	18	288	24	384	6
B5575	2004	Dodge	Stratus	102.3	581.8	684.1	14600	15.0%	21.3	16	341	18	288	24	384	6
B5542	2004	Dodge	Stratus	460	68.4	528.4	11452	87.1%	21.7	16	347	18	288	24	384	6
B5558	2004	Dodge	Stratus	0	411.9	411.9	8948	0.0%	21.7	16	348	18	288	24	384	6
B5566	2004	Dodge	Stratus	371.5	316.9	688.4	15073	54.0%	21.9	16	350	18	288	24	384	6
B5567	2004	Dodge	Stratus	149.7	481.2	630.9	14135	23.7%	22.4	16	358	18	288	24	384	6
B5599	2004	Dodge	Stratus	352.2	262.3	614.5	13894	57.3%	22.6	16	362	18	288	24	384	6
B5613	2004	Dodge	Stratus	0	380.6	380.6	8904	0.0%	23.4	16	374	18	288	24	384	6
B5569	2004	Dodge	Stratus	0	191.8	191.8	4609	0.0%	24.0	16	384	18	288	24	384	6
B5556	2004	Dodge	Stratus	0	591.6	591.6	14276	0.0%	24.1	16	386	18	288	24	384	6
B5544	2004	Dodge	Stratus	344.7	232.3	577.0	14181	59.7%	24.6	16	393	18	288	24	384	6
B5574	2004	Dodge	Stratus	83.1	211.9	295.0	7265	28.2%	24.6	16	394	18	288	24	384	6
B5625	2004	Dodge	Stratus	0	403.0	403.0	9950	0.0%	24.7	16	395	18	288	24	384	6
B5623	2004	Dodge	Stratus	0	493.2	493.2	12310	0.0%	25.0	16	399	18	288	24	384	6
B5557	2004	Dodge	Stratus	0	154.0	154.0	3875	0.0%	25.2	16	403	18	288	24	384	6
B5563	2004	Dodge	Stratus	0		368.7	9307	0.0%	25.2	16		18	288	24	384	6
B5551	2004	Dodge	Stratus	40	303.7	343.7	8757	11.6%	25.5	16	408	18	288	24	384	6
B5655	2004	Dodge	Stratus	0	381.7	381.7	9741	0.0%	25.5	16	408	18	288	24	384	6
B5568	2004	Dodge	Stratus	103.2	440.1	543.3	13867	19.0%	25.5	16	408	18	288	24	384	6
B5561	2004	Dodge	Stratus	0	280.6	280.6	7215	0.0%	25.7	16	411	18	288	24	384	6
B5579	2004	Dodge	Stratus	0	950.5	950.5	24546	0.0%	25.8	16	413	18	288	24	384	6
B5570	2004	Dodge	Stratus	0	249.9	249.9	6456	0.0%	25.8	16		18	288	24	384	6
B5565	2004	Dodge	Stratus	184.3	422.9	607.2	15923	30.4%	26.2	16	420	18	288	24	384	6
B5553	2004	Dodge	Stratus	269.87	163.0	432.8	11381	62.4%		16		18	288	24	384	6
B5658	2004	Dodge	Stratus	172	282.8	454.8	11970	37.8%		16		18	288	24	384	6
B5547	2004	Dodge	Stratus	11	354.6	365.6	9813	3.0%		16		18	288	24	384	6
B5548	2004	Dodge	Stratus	41	370.2	411.2	11186	10.0%		16		18	288	24	384	6
B5549	2004	Dodge	Stratus	0	304.0	304.0	8285	0.0%	27.3	16		18	288	24	384	6
B5610	2004	Dodge	Stratus	648.0	254.93	648.0	17852	100.0%	27.5	16		18	288	24	384	

Unit	Year	Make	Model	· · · ·	Gas (Gallons)	Total Fuel (Gallons)	Mileage	Percent E-85 Usage	Miles Per Gallon	Fuel Tank Capacity (Gallons)	Miles per Tank	MPG with E-85* ONLY	Miles per Tank of E-85 ONLY	ONLY	Miles per Tank of Gasoline ONLY	MPG Difference
B5564	2004	Dodge	Stratus	129.3	585.8	715.1	19877	18.1%				18	288	24	384	6
B5611	2004	Dodge	Stratus	10.33	268.4	278.7	7896	3.7%	28.3	16		18	288	24	384	6
B5550	2004	Dodge	Stratus	24	286.1	310.1	8859	7.7%	28.6	16	457	18	288	24	384	6
B5555	2004	Dodge	Stratus	0	262.5	262.5	7609	0.0%	29.0	16		18	288	24	384	6
B5643	2004	Dodge	Stratus	0	204.7	204.7	6022	0.0%	29.4	16		18	288	24	384	6
B5624	2004	Dodge	Stratus	0	451.0	451.0	13427	0.0%	29.8	16		18	288	24	384	6
B5559	2004	Dodge	Stratus	0	190.2	190.2	6224	0.0%	32.7	16	524	18	288	24	384	6
B5612	2004	Dodge	Stratus	153	126.8	279.8	9369	54.7%	33.5	16	536	18	288	24	384	6
B5546	2004	Dodge	Stratus	0	394.6	394.6	13450	0.0%	34.1	16	545	18	288	24	384	6
B5578	2004	Dodge	Stratus	93.3	414.2	507.5	17884	18.4%	35.2	16	564	18	288	24	384	6
B5617	2003	Ford	Explorer	0	818.8	818.8	9450	0.0%	11.5	22	254	13	286	19	418	6
B5590	2003	Ford	Explorer	0	1043.4	1043.4	16453	0.0%	15.8	22	347	13	286	19	418	6
B5756	2004	Ford	Explorer	584.2	176.6	760.8	9836	76.8%	12.9	22	284	14	308	18	396	4
B5703	2004	Ford	Explorer	487.53	173.5	661.1	8714	73.7%	13.2	22	290	14	308	18	396	4
B5709	2004	Ford	Explorer	119.79	950.6	1070.4	15552	11.2%	14.5	22	320	14	308	18	396	4
B5802	2004	Ford	Explorer	0	713.8	713.8	10810	0.0%	15.1	22	333	14	308	18	396	4
B5694	2004	Ford	Explorer	0	1047.7	1047.7	15980	0.0%	15.3	22	336	14	308	18	396	4
B5801	2004	Ford	Explorer	0	711.4	711.4	11158	0.0%	15.7	22	345	14	308	18	396	4
B5707	2004	Ford	Explorer	0	906.5	906.5	14780	0.0%	16.3	22	359	14	308	18	396	4
B5757	2004	Ford	Explorer	341.58	638.5	980.1	16173	34.9%	16.5	22	363	14	308	18	396	4
B5708	2004	Ford	Explorer	0	1247.0	1247.0	20795	0.0%	16.7	22	367	14	308	18	396	4
B5693	2004	Ford	Explorer	0	610.5	610.5	10208	0.0%	16.7	22	368	14	308	18	396	4
B5692	2004	Ford	Explorer	0	723.4	723.4	12200	0.0%	16.9	22	371	14	308	18	396	4
B5704	2004	Ford	Explorer	0	682.4	682.4	11973	0.0%	17.5	22	386	14	308	18	396	4
B5706	2004	Ford	Explorer	56.34	1062.6	1118.9	19695	5.0%	17.6	22	387	14	308	18	396	4
B5705	2004	Ford	Explorer	0	715.6	715.6	13215	0.0%	18.5	22	406	14	308	18	396	4
B5712	2004	Ford	Explorer	360.76	332.9	693.6	13749	52.0%	19.8	22	436	14	308	18	396	4
B5740	2004	Ford	Explorer	142.1	392.1	534.2	11182	26.6%	20.9	22	461	14	308	18	396	4
B5682	2004	Ford	Explorer	0		657.2	14157	0.0%	21.5	22	474	14	308	18	396	4
B5683	2004	Ford	Explorer	4	453.8	457.8	10250	0.9%	22.4	22	493	14	308	18	396	4
B5972	2005	Ford	Explorer	15		871.1	10690	1.7%	12.3	22	270	13	286	17	374	4
B5974	2005	Ford	Explorer		415.2	415.2	6238	0.0%	15.0	22	331	13	286	17	374	4
B5968	2005	Ford	Explorer	0		974.6	15890	0.0%	16.3	22	359	13	286	17	374	4
B5975	2005	Ford	Explorer	8		308.0	5033	2.6%	16.3	22	360	13	286	17	374	4
B5969	2005	Ford	Explorer	7	1069.8	1076.8	17659	0.7%	16.4	22	361	13	286	17	374	4
B5971	2005	Ford	Explorer	10		1106.7	19830	0.9%	17.9	22	394	13	286	17	374	4
B5934	2005	Ford	Explorer	0	694.4	694.4	14959	0.0%	21.5	22	474	13	286	17	374	4
B5970	2005	Ford	Explorer	-	777.8	777.8	17961	0.0%	23.1	22	508	13	286	17	374	4
B4513	1998	Ford	Taurus	154.4	54.5	208.9	3317	73.9%	15.9	18		10	0	23	414	23
B4587	1998	Ford	Taurus	0		484.6	10063	0.0%	20.8	18			0	23	414	23
B4518	1998	Ford	Taurus	163.15	45.3	208.5	4476	78.3%	21.5	18			0	23	414	23
B4510 B4541	1998	Ford	Taurus	9.3	150.3	159.6	3555	5.8%	21.3	18			0	23	414	23
B4596	1998	Ford	Taurus	0		226.7	5062	0.0%	22.3	18		-	0	23	414	23
B4552	1998	Ford	Taurus	43		447.1	10060	9.6%	22.5	18		-	0	23	414	23
B4532 B4534	1998	Ford	Taurus			120.0	2712	0.0%	22.0	18			0	23	414	23
B4534 B4563	1998	Ford	Taurus	0		328.9	7950	0.0%	22.0	18			0	23	414	23
	1998		Taurus	0		509.7	12704	0.0%	24.2	18	435		0	23	414	23
B4540		Ford	Taurus	63	265.3	328.3	8486	19.2%	24.7	18	449		0	23	414	23
B4554	1998	Ford	Taurus	03		247.8	6594	0.0%	25.8	18			0	23	414	
B4538	1998	Ford	i aui US	0	247.8	247.8	0094	0.0%	20.0	18	479		0	23	414	23

Unit	Year	Make	Model	E-85 (Gallons)	Gas (Gallons)	Total Fuel (Gallons)	Mileage	Percent E-85 Usage	Miles Per Gallon	Fuel Tank Capacity (Gallons)	Miles per Tank	MPG with E-85* ONLY	Miles per Tank of E-85 ONLY	MPG with Gasoline* ONLY	Miles per Tank of Gasoline ONLY	MPG Difference
B4661		Ford	Taurus	0		248.4	3795	0.0%		18			0		432	24
B4640	1999	Ford	Taurus	19		197.6	3126	9.6%		18			0	24	432	24
B4734	1999	Ford	Taurus	168		197.2	3137	85.2%		18			0	24	432	24
B4803	1999	Ford	Taurus	461.5	50.5	512.0	8575	90.1%		18	301		0	24	432	24
B4660	1999	Ford	Taurus	0		210.9	3788	0.0%	18.0	18			0	24	432	24
B4804	1999	Ford	Taurus	0		464.7	8570	0.0%	18.4	18			0	24	432	24
B4805	1999	Ford	Taurus	609.7	55.6	665.3	12304	91.6%		18	333		0	24	432	24
B4837	1999	Ford	Taurus	172.3		828.9	15897	20.8%	19.2	18			0	24	432	24
B4758	1999	Ford	Taurus Taurus	0 74.3		222.4 327.3	4720 7040	0.0%	21.2	18 18	382 387		0	24	432 432	24 24
B4771	1999	Ford	Taurus	74.3		327.3	6626	0.0%	21.5	18			0	24	432	24
B4798	1999	Ford	Taurus	6	423.4	429.4	9542	1.4%		18	400		0	24	432	24
B4667	1999	Ford	Taurus	70.7	79.6	429.4	3600	47.0%		18			0	24	432	24
B4806 B4802	1999 1999	Ford	Taurus	54.79		218.0	5237	25.1%		18			0	24	432	24
B4802 B4663	1999	Ford Ford	Taurus		296.4	218.0	7376	0.0%	24.0	18			0	24	432	24
B4664	1999	Ford	Taurus	0		248.7	6411	0.0%	24.7	18			0	24	432	24
B4004 B4778	1999	Ford	Taurus	0		305.6	8586	0.0%		18			0	24	432	24
B4778 B4853	1999	Ford	Taurus	0	396.5	396.5	11365	0.0%		18	516		0	24	432	24
B4858	2000	Ford	Taurus	342.7	210.1	552.8	10435	62.0%	18.9	18		18	324	25	450	7
B4873	2000	Ford	Taurus	11		222.9	4389	4.9%		18	354	18	324	25	450	7
B4840	2000	Ford	Taurus	103.9		285.9	5932	36.3%		18	373	18	324	25	450	7
B4842	2000	Ford	Taurus	6		358.5	7503	1.7%		18		18	324	25	450	7
B4690	2000	Ford	Taurus	43		170.1	3570	25.3%		18		18	324	25	450	7
B4839	2000	Ford	Taurus	423.3		564.1	11955	75.0%		18		18	324	25	450	7
B4972	2000	Ford	Taurus	46.5		182.6	3929	25.5%		18		18	324	25	450	7
B4695	2000	Ford	Taurus	218		369.5	8172	59.0%	22.1	18	398	18	324	25	450	7
B4879	2000	Ford	Taurus	96		297.4	6707	32.3%	22.6	18	406	18	324	25	450	7
B4782	2000	Ford	Taurus	0		352.7	8237	0.0%	23.4	18	420	18	324	25	450	7
B4838	2000	Ford	Taurus	177.7	178.7	356.4	8474	49.9%	23.8	18	428	18	324	25	450	7
B4974	2000	Ford	Taurus	7.5	235.5	243.0	5796	3.1%	23.9	18	429	18	324	25	450	7
B4872	2000	Ford	Taurus	22	450.9	472.9	11493	4.7%	24.3	18	437	18	324	25	450	7
B4973	2000	Ford	Taurus	126.9	135.9	262.8	6410	48.3%	24.4	18	439	18	324	25	450	7
B4691	2000	Ford	Taurus	16	303.5	319.5	8384	5.0%	26.2	18	472	18	324	25	450	7
B4971	2000	Ford	Taurus	44.5	367.7	412.2	11296	10.8%	27.4	18	493	18	324	25	450	7
B5075	2001	Ford	Taurus	62	336.2	398.2	6000	15.6%		18		18	324	24	432	6
B5076	2001	Ford	Taurus	243	121.2	364.2	7280	66.7%		18		18	324	24	432	6
B5179	2001	Ford	Taurus	0	245.7	245.7	5605	0.0%	22.8	18		18	324	24	432	6
B5181	2001	Ford	Taurus	0		575.2	13246	0.0%	23.0	18		18	324	24	432	6
B5073	2001	Ford	Taurus	91		417.7	9948	21.8%		18		18	324	24	432	6
B5072	2001	Ford	Taurus	51		428.4	10227	11.9%		18	430	18	324	24	432	6
B5178	2001	Ford	Taurus	0		280.7	8530	0.0%	30.4	18	547	18	324	24	432	6
B5185	2001	Ford	Taurus	0		344.8	7216	0.0%		18		18	324	24	432	6
B5187	2001	Ford	Taurus	20.91	479.3	500.2	10961	4.2%		18	394	18	324	24	432	6
B5264	2001	Ford	Taurus	0	437.0	437.0	10045	0.0%	23.0	18		18	324	24	432	6
B5183	2001	Ford	Taurus	0		281.5	6508	0.0%		18		18	324	24	432	6
B5350	2002	Ford	Taurus	0		346.0	7995	0.0%		18		17	306	24	432	7
B5690	2004	Ford	Taurus	32.2		264.6	2917	12.2%		18		18	324	24	432	6
B5762	2004	Ford	Taurus	21		1059.0	18400	2.0%	17.4	18	313	18	324	24	432	6
B5730	2004	Ford	Taurus	30.3	404.3	434.6	9045	7.0%	20.8	18	375	18	324	24	432	6

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                                                     | 190.3<br>8<br>0<br>69.75<br>300.1<br>536.6<br>0<br>459.62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                                                                                                                                                                                                                                                                                      | 10001<br>9477<br>26155<br>10177<br>7986                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 40.2%<br>2.0%<br>0.0%<br>18.7%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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 45.5%           OD5         Ford         Taurus         449.95         423.2         873.1         19867         51.5%           OD5         Ford         Taurus         378.3         490.4         868.7         19774         43.5%           OD5         Ford         Taurus         312.5         472.9         785.4         18360         39.8%           OD5         Ford         Taurus         0         205.5         205.5         4852         0.0%           OD5         Ford         Taurus         9         152.1         161.1         3928         5.6%           OD5         Ford         Taurus         0         161.9         161.9         4161         0.0%           OD5         Ford</td><td>OS         Ford         Taurus         526.09         443.9         970.0         20874         54.2%         21.5           OS         Ford         Taurus         0         169.3         169.3         3679         0.0%         21.7           OS         Ford         Taurus         510.95         336.6         847.6         18641         60.3%         22.5           OS         Ford         Taurus         338.7         405.1         743.8         16739         45.5%         22.5           OS         Ford         Taurus         378.3         490.4         868.7         19774         43.5%         22.8           OS         Ford         Taurus         378.3         490.4         868.7         19774         43.5%         22.8           OS         Ford         Taurus         312.5         472.9         785.4         18360         39.8%         23.4           OS         Ford         Taurus         0         205.5         205.5         4852         0.0%         23.6           OS         Ford         Taurus         0         161.9         161.1         392.8         5.6%         24.4           OS         Ford         <t< td=""><td>05         Ford         Taurus         526.09         443.9         970.0         20874         54.2%         21.5         18           055         Ford         Taurus         0         169.3         169.3         3679         0.0%         21.7         78           055         Ford         Taurus         510.95         336.6         847.6         18641         60.3%         22.0         78           055         Ford         Taurus         338.7         405.1         743.8         16739         45.5%         22.8         78           055         Ford         Taurus         342.5         423.2         873.1         19867         51.5%         22.8         78           055         Ford         Taurus         425.8         452.7         878.5         19998         48.5%         22.8         78           055         Ford         Taurus         0         205.5         205.5         4852         0.0%         23.6         78           055         Ford         Taurus         0         161.9         161.1         3928         5.6%         24.4         78           055         Ford         Taurus         0         151.9</td><td>D5         Ford         Taurus         526.09         443.9         970.0         20874         54.2%         21.5         76         387           05         Ford         Taurus         0         169.3         169.3         367.9         0.0%         21.7         78         397           05         Ford         Taurus         510.95         336.6         847.6         18641         60.3%         22.0         76         366           05         Ford         Taurus         338.7         405.1         743.8         16739         45.5%         22.5         76         4055           05         Ford         Taurus         378.3         490.4         868.7         19774         43.5%         22.8         76         410           05         Ford         Taurus         312.5         472.9         785.4         18360         39.8%         23.4         76         427           05         Ford         Taurus         450.18         472.4         922.6         21894         48.8%         23.7         76         427           05         Ford         Taurus         0         161.9         161.1         3928         5.6%         24.4<td>05       Ford       Taurus       526.09       443.9       970.0       20874       54.2%       21.5       16       387       18         05       Ford       Taurus       0       169.3       169.3       3679       0.0%       21.7       16       397       18         05       Ford       Taurus       510.95       336.6       847.6       18641       60.3%       22.0       18       396       18         05       Ford       Taurus       338.7       405.1       743.8       16739       45.5%       22.5       16       405       18         05       Ford       Taurus       338.3       490.4       86.7       19774       43.5%       22.8       16       410       18         05       Ford       Taurus       332.5       472.9       85.4       18360       39.8%       23.4       16       427       18         05       Ford       Taurus       0       205.5       205.5       4852       0.0%       23.6
      16       427       18         05       Ford       Taurus       9       152.1       161.1       3928       5.6%       24.4       16       439       <t< td=""><td>05       Ford       Taurus       526.09       443.9       970.0       20874       54.2%       21.5       18       387       18       324         05       Ford       Taurus       0       169.3       169.3       367       0.0%       21.7       16       397       18       324         05       Ford       Taurus       510.95       336.6       847.6       18641       60.3%       22.0       16       396       18       324         05       Ford       Taurus       338.7       405.1       743.8       16739       45.5%       22.5       15       405       18       324         05       Ford       Taurus       378.3       490.4       868.7       19774       43.5%       22.8       16       410       18       324         05       Ford       Taurus       312.5       472.9       785.4       19998       48.5%       22.8       16       410       18       324         05       Ford       Taurus       0       205.5       245.0       0.0%       23.6       16       427       18       324         05       Ford       Taurus       0       161.9       16</td><td>05       Ford       Taurus       526.09       443.9       970.0       2087.4       54.2%       21.5       76       337       78       324       24         05       Ford       Taurus       0       169.3       367       0.0%       21.1       76       397       78       324       24         05       Ford       Taurus       510.95       336.6       847.6       18641       60.3%       22.0       78       397       78       324       24         05       Ford       Taurus       338.7       405.1       743.8       167.39       45.5%       22.8       78       405       16       324       24         05       Ford       Taurus       378.3       490.4       868.7       1977.4       43.5%       22.8       78       470       78       324       24         05       Ford       Taurus       312.5       472.9       78.5       1999.8       45.5%       22.8       78       470       78       324       24         05       Ford       Taurus       0       25.5       4852       0.0%       23.6       78       427       78       324       24       24</td><td>05       Ford       Taurus       526.09       443.9       970.0       20874       54.2%       21.5       16       337       18       324       24       432         05       Ford       Taurus       0       169.3       169.3       367       0.0%       21.7       18       397       18       324       24       432         05       Ford       Taurus       510.95       336.6       847.6       18641       60.3%       22.0       18       397       18       324       24       432         05       Ford       Taurus       338.7       405.1       743.8       167.9       45.5%       22.5       18       470       18       324       24       432         05       Ford       Taurus       378.3       490.4       868.7       19774       43.5%       22.8       18       470       18       324       24       432         05       Ford       Taurus       312.5       472.9       785.4       18300       39.8%       22.8       18       470       18       324       24       432         05       Ford       Taurus       0       25.5       205.5       485.2</td></t<></td></td></t<></td></td></td> | 05         Ford         Taurus           005         Ford         Taurus GL           005         Ford         Taurus GL           005         Ford         Taurus SE           000         Ford         Taurus SE           000         Ford         Taurus SE           000         Ford         Taurus SE           000         Ford <td>005         Ford         Taurus         526.09           005         Ford         Taurus         0           005         Ford         Taurus         338.7           005         Ford         Taurus         378.3           005         Ford         Taurus         378.3           005         Ford         Taurus         378.3           005         Ford         Taurus         378.3           005         Ford         Taurus         312.5           005         Ford         Taurus         0           005         Ford         Taurus GL         264.5     <td>OS         Ford         Taurus         526.09         443.9           OS         Ford         Taurus         0         169.3           OS         Ford         Taurus         0         169.3           OS         Ford         Taurus         510.95         336.6           OS         Ford         Taurus         338.7         405.1           OS         Ford         Taurus         349.95         423.2           OS         Ford         Taurus         449.95         423.2           OS         Ford         Taurus         425.8         452.7           OS         Ford         Taurus         425.8         452.7           OS         Ford         Taurus         425.18         472.9           OS         Ford         Taurus         0         205.5           OS         Ford         Taurus         0         205.5           OS         Ford         Taurus         0         102.4           OS         Ford         Taurus         0         102.4           OS         Ford         Taurus         0         192.6           97         Ford         Taurus GL         179.9</td><td>OS         Ford         Taurus         526.09         443.9         970.0           ODS         Ford         Taurus         0         169.3         169.3           ODS         Ford         Taurus         0         169.3         169.3           ODS         Ford         Taurus         338.7         405.1         743.8           ODS         Ford         Taurus         338.7         405.1         743.8           ODS         Ford         Taurus         349.9         423.2         873.1           ODS         Ford         Taurus         378.3         490.4         868.7           ODS         Ford         Taurus         312.5         472.9         785.4           ODS         Ford         Taurus         0         205.5         205.5           ODS         Ford         Taurus         0         205.5         205.5           ODS         Ford         Taurus         0         161.9         161.9           ODS         Ford         Taurus         0         192.6         192.6           ODS         Ford         Taurus GL         264.5         80.3         344.8           OP         Ford</td><td>OS         Ford         Taurus         526.09         443.9         970.0         20874           05         Ford         Taurus         0         169.3         169.3         3679           05         Ford         Taurus         510.95         336.6         847.6         18641           05         Ford         Taurus         338.7         405.1         743.8         16739           05         Ford         Taurus         449.95         423.2         873.1         19867           05         Ford         Taurus         378.3         490.4         868.7         19774           05         Ford         Taurus         312.5         472.9         785.4         18360           05         Ford         Taurus         0         205.5         205.5         4852           05         Ford         Taurus         0         161.9         161.1         3928           05         Ford         Taurus         0         161.9         161.1         3928           05         Ford         Taurus         0         192.6         192.6         5051           05         Ford         Taurus GL         0         191.8</td><td>OS         Ford         Taurus         526.09         443.9         970.0         20874         54.2%           OD5         Ford         Taurus         0         169.3         169.3         3679         0.0%           OD5         Ford         Taurus         510.95         336.6         847.6         18641         60.3%           OD5         Ford         Taurus         338.7         405.1         743.8         16739         45.5%           OD5         Ford         Taurus         449.95         423.2         873.1         19867         51.5%           OD5         Ford         Taurus         378.3         490.4         868.7         19774         43.5%           OD5         Ford         Taurus         312.5         472.9         785.4         18360         39.8%           OD5         Ford         Taurus         0         205.5         205.5         4852         0.0%           OD5         Ford         Taurus         9         152.1         161.1         3928         5.6%           OD5         Ford         Taurus         0         161.9         161.9         4161         0.0%           OD5         Ford</td><td>OS         Ford         Taurus         526.09         443.9         970.0         20874         54.2%         21.5           OS         Ford         Taurus         0         169.3         169.3         3679         0.0%         21.7           OS         Ford         Taurus         510.95         336.6         847.6         18641         60.3%         22.5           OS         Ford         Taurus         338.7         405.1         743.8         16739         45.5%         22.5           OS         Ford         Taurus         378.3         490.4         868.7         19774         43.5%         22.8           OS         Ford         Taurus         378.3         490.4         868.7         19774         43.5%         22.8           OS         Ford         Taurus         312.5         472.9         785.4         18360         39.8%         23.4           OS         Ford         Taurus         0         205.5         205.5         4852         0.0%         23.6           OS         Ford         Taurus         0         161.9         161.1         392.8         5.6%         24.4           OS         Ford         <t< td=""><td>05         Ford         Taurus         526.09         443.9         970.0         20874         54.2%         21.5         18           055         Ford         Taurus         0         169.3         169.3         3679        
0.0%         21.7         78           055         Ford         Taurus         510.95         336.6         847.6         18641         60.3%         22.0         78           055         Ford         Taurus         338.7         405.1         743.8         16739         45.5%         22.8         78           055         Ford         Taurus         342.5         423.2         873.1         19867         51.5%         22.8         78           055         Ford         Taurus         425.8         452.7         878.5         19998         48.5%         22.8         78           055         Ford         Taurus         0         205.5         205.5         4852         0.0%         23.6         78           055         Ford         Taurus         0         161.9         161.1         3928         5.6%         24.4         78           055         Ford         Taurus         0         151.9</td><td>D5         Ford         Taurus         526.09         443.9         970.0         20874         54.2%         21.5         76         387           05         Ford         Taurus         0         169.3         169.3         367.9         0.0%         21.7         78         397           05         Ford         Taurus         510.95         336.6         847.6         18641         60.3%         22.0         76         366           05         Ford         Taurus         338.7         405.1         743.8         16739         45.5%         22.5         76         4055           05         Ford         Taurus         378.3         490.4         868.7         19774         43.5%         22.8         76         410           05         Ford         Taurus         312.5         472.9         785.4         18360         39.8%         23.4         76         427           05         Ford         Taurus         450.18         472.4         922.6         21894         48.8%         23.7         76         427           05         Ford         Taurus         0         161.9         161.1         3928         5.6%         24.4<td>05       Ford       Taurus       526.09       443.9       970.0       20874       54.2%       21.5       16       387       18         05       Ford       Taurus       0       169.3       169.3       3679       0.0%       21.7       16       397       18         05       Ford       Taurus       510.95       336.6       847.6       18641       60.3%       22.0       18       396       18         05       Ford       Taurus       338.7       405.1       743.8       16739       45.5%       22.5       16       405       18         05       Ford       Taurus       338.3       490.4       86.7       19774       43.5%       22.8       16       410       18         05       Ford       Taurus       332.5       472.9       85.4       18360       39.8%       23.4       16       427       18         05       Ford       Taurus       0       205.5       205.5       4852       0.0%       23.6       16       427       18         05       Ford       Taurus       9       152.1       161.1       3928       5.6%       24.4       16       439       <t< td=""><td>05       Ford       Taurus       526.09       443.9       970.0       20874       54.2%       21.5       18       387       18       324         05       Ford       Taurus       0       169.3       169.3       367       0.0%       21.7       16       397       18       324         05       Ford       Taurus       510.95       336.6       847.6       18641       60.3%       22.0       16       396       18       324         05       Ford       Taurus       338.7       405.1       743.8       16739       45.5%       22.5       15       405       18       324         05       Ford       Taurus       378.3       490.4       868.7       19774       43.5%       22.8       16       410       18       324         05       Ford       Taurus       312.5       472.9       785.4       19998       48.5%       22.8       16       410       18       324         05       Ford       Taurus       0       205.5       245.0       0.0%       23.6       16       427       18       324         05       Ford       Taurus       0       161.9       16</td><td>05       Ford       Taurus       526.09       443.9       970.0       2087.4       54.2%       21.5       76       337       78       324       24         05       Ford       Taurus       0       169.3       367       0.0%       21.1       76       397       78       324       24         05       Ford       Taurus       510.95       336.6       847.6       18641       60.3%       22.0       78       397       78       324       24         05       Ford       Taurus       338.7       405.1       743.8       167.39       45.5%       22.8       78       405       16       324       24         05       Ford       Taurus       378.3       490.4       868.7       1977.4       43.5%       22.8       78       470       78       324       24         05       Ford       Taurus       312.5       472.9       78.5       1999.8       45.5%       22.8       78       470       78       324       24         05       Ford       Taurus       0       25.5       4852       0.0%       23.6       78       427       78       324       24       24</td><td>05       Ford       Taurus       526.09       443.9       970.0       20874       54.2%       21.5       16       337       18       324       24       432         05       Ford       Taurus       0       169.3       169.3       367       0.0%       21.7       18       397       18       324       24       432         05       Ford       Taurus       510.95       336.6       847.6       18641       60.3%       22.0       18       397       18       324       24       432         05       Ford       Taurus       338.7       405.1       743.8       167.9       45.5%       22.5       18       470       18       324       24       432         05       Ford       Taurus       378.3       490.4       868.7       19774       43.5%       22.8       18       470       18       324       24       432         05       Ford       Taurus       312.5       472.9       785.4       18300       39.8%       22.8       18       470       18       324       24       432         05       Ford       Taurus       0       25.5       205.5       485.2</td></t<></td></td></t<></td></td> | 005         Ford         Taurus         526.09           005         Ford         Taurus         0           005         Ford         Taurus         338.7           005         Ford         Taurus         378.3           005         Ford         Taurus         378.3           005         Ford         Taurus         378.3           005         Ford         Taurus         378.3           005         Ford         Taurus         312.5           005         Ford         Taurus         0           005         Ford         Taurus GL         264.5 <td>OS         Ford         Taurus         526.09         443.9           OS         Ford         Taurus         0         169.3           OS         Ford         Taurus         0         169.3           OS         Ford         Taurus         510.95         336.6           OS         Ford         Taurus         338.7         405.1           OS         Ford         Taurus         349.95         423.2           OS         Ford         Taurus         449.95         423.2           OS         Ford         Taurus         425.8         452.7           OS         Ford         Taurus         425.8         452.7           OS         Ford         Taurus         425.18         472.9           OS         Ford         Taurus         0         205.5           OS         Ford         Taurus         0         205.5           OS         Ford         Taurus         0         102.4           OS         Ford         Taurus         0         102.4           OS         Ford         Taurus         0         192.6           97         Ford         Taurus GL         179.9</td> <td>OS         Ford         Taurus         526.09         443.9         970.0           ODS         Ford         Taurus         0         169.3         169.3           ODS         Ford         Taurus         0         169.3         169.3           ODS         Ford         Taurus         338.7         405.1         743.8           ODS         Ford         Taurus         338.7         405.1         743.8           ODS         Ford         Taurus         349.9         423.2         873.1           ODS         Ford         Taurus         378.3         490.4         868.7           ODS         Ford         Taurus         312.5         472.9         785.4           ODS         Ford         Taurus         0         205.5         205.5           ODS         Ford         Taurus         0         205.5         205.5           ODS         Ford         Taurus         0         161.9         161.9           ODS         Ford         Taurus         0         192.6         192.6           ODS         Ford         Taurus GL         264.5         80.3         344.8           OP         Ford</td> <td>OS         Ford         Taurus         526.09         443.9         970.0         20874           05         Ford         Taurus         0         169.3         169.3         3679           05         Ford         Taurus         510.95         336.6         847.6         18641           05         Ford         Taurus         338.7         405.1         743.8         16739           05         Ford         Taurus         449.95         423.2         873.1         19867           05         Ford         Taurus         378.3         490.4         868.7         19774           05         Ford         Taurus         312.5         472.9         785.4         18360           05         Ford         Taurus         0         205.5         205.5         4852           05         Ford         Taurus         0         161.9         161.1         3928           05         Ford         Taurus         0         161.9         161.1         3928           05         Ford         Taurus         0        
192.6         192.6         5051           05         Ford         Taurus GL         0         191.8</td> <td>OS         Ford         Taurus         526.09         443.9         970.0         20874         54.2%           OD5         Ford         Taurus         0         169.3         169.3         3679         0.0%           OD5         Ford         Taurus         510.95         336.6         847.6         18641         60.3%           OD5         Ford         Taurus         338.7         405.1         743.8         16739         45.5%           OD5         Ford         Taurus         449.95         423.2         873.1         19867         51.5%           OD5         Ford         Taurus         378.3         490.4         868.7         19774         43.5%           OD5         Ford         Taurus         312.5         472.9         785.4         18360         39.8%           OD5         Ford         Taurus         0         205.5         205.5         4852         0.0%           OD5         Ford         Taurus         9         152.1         161.1         3928         5.6%           OD5         Ford         Taurus         0         161.9         161.9         4161         0.0%           OD5         Ford</td> <td>OS         Ford         Taurus         526.09         443.9         970.0         20874         54.2%         21.5           OS         Ford         Taurus         0         169.3         169.3         3679         0.0%         21.7           OS         Ford         Taurus         510.95         336.6         847.6         18641         60.3%         22.5           OS         Ford         Taurus         338.7         405.1         743.8         16739         45.5%         22.5           OS         Ford         Taurus         378.3         490.4         868.7         19774         43.5%         22.8           OS         Ford         Taurus         378.3         490.4         868.7         19774         43.5%         22.8           OS         Ford         Taurus         312.5         472.9         785.4         18360         39.8%         23.4           OS         Ford         Taurus         0         205.5         205.5         4852         0.0%         23.6           OS         Ford         Taurus         0         161.9         161.1         392.8         5.6%         24.4           OS         Ford         <t< td=""><td>05         Ford         Taurus         526.09         443.9         970.0         20874         54.2%         21.5         18           055         Ford         Taurus         0         169.3         169.3         3679         0.0%         21.7         78           055         Ford         Taurus         510.95         336.6         847.6         18641         60.3%         22.0         78           055         Ford         Taurus         338.7         405.1         743.8         16739         45.5%         22.8         78           055         Ford         Taurus         342.5         423.2         873.1         19867         51.5%         22.8         78           055         Ford         Taurus         425.8         452.7         878.5         19998         48.5%         22.8         78           055         Ford         Taurus         0         205.5         205.5         4852         0.0%         23.6         78           055         Ford         Taurus         0         161.9         161.1         3928         5.6%         24.4         78           055         Ford         Taurus         0         151.9</td><td>D5         Ford         Taurus         526.09         443.9         970.0         20874         54.2%         21.5         76         387           05         Ford         Taurus         0         169.3         169.3         367.9         0.0%         21.7         78         397           05         Ford         Taurus         510.95         336.6         847.6         18641         60.3%         22.0         76         366           05         Ford         Taurus         338.7         405.1         743.8         16739         45.5%         22.5         76         4055           05         Ford         Taurus         378.3         490.4         868.7         19774         43.5%         22.8         76         410           05         Ford         Taurus         312.5         472.9         785.4         18360         39.8%         23.4         76         427           05         Ford         Taurus         450.18         472.4         922.6         21894         48.8%         23.7         76         427           05         Ford         Taurus         0         161.9         161.1         3928         5.6%         24.4<td>05       Ford       Taurus       526.09       443.9       970.0       20874       54.2%       21.5       16       387       18         05       Ford       Taurus       0       169.3       169.3       3679       0.0%       21.7       16       397       18         05       Ford       Taurus       510.95       336.6       847.6       18641       60.3%       22.0       18       396       18         05       Ford       Taurus       338.7       405.1       743.8       16739       45.5%       22.5       16       405       18         05       Ford       Taurus       338.3       490.4       86.7       19774       43.5%       22.8       16       410       18         05       Ford       Taurus       332.5       472.9       85.4       18360       39.8%       23.4       16       427       18         05       Ford       Taurus       0       205.5       205.5       4852       0.0%       23.6       16       427       18         05       Ford       Taurus       9       152.1       161.1       3928       5.6%       24.4       16       439       <t< td=""><td>05       Ford       Taurus       526.09       443.9       970.0       20874       54.2%       21.5       18       387       18       324         05       Ford       Taurus       0       169.3       169.3       367       0.0%       21.7       16       397       18       324         05       Ford       Taurus       510.95       336.6       847.6       18641       60.3%       22.0       16       396       18       324         05       Ford       Taurus       338.7       405.1       743.8       16739       45.5%       22.5       15       405       18       324         05       Ford       Taurus       378.3       490.4       868.7       19774       43.5%       22.8       16       410       18       324         05       Ford       Taurus       312.5       472.9       785.4       19998       48.5%       22.8       16       410       18       324         05       Ford       Taurus       0       205.5       245.0       0.0%       23.6       16       427       18       324         05       Ford       Taurus       0       161.9       16</td><td>05       Ford       Taurus       526.09       443.9       970.0       2087.4       54.2%       21.5       76       337       78       324       24         05       Ford       Taurus       0       169.3       367       0.0%       21.1       76       397       78       324       24         05       Ford       Taurus       510.95       336.6       847.6       18641       60.3%       22.0       78       397       78       324       24         05       Ford       Taurus       338.7       405.1       743.8       167.39       45.5%       22.8       78       405       16       324       24         05       Ford       Taurus       378.3       490.4       868.7       1977.4       43.5%       22.8       78       470       78       324       24         05       Ford       Taurus       312.5       472.9       78.5       1999.8       45.5%       22.8       78       470       78       324       24         05       Ford       Taurus       0       25.5       4852       0.0%       23.6       78       427       78       324       24       24</td><td>05       Ford       Taurus       526.09       443.9       970.0       20874       54.2%       21.5       16       337       18       324       24       432         05       Ford       Taurus       0       169.3       169.3       367       0.0%       21.7       18       397       18       324       24       432         05       Ford       Taurus       510.95       336.6       847.6       18641       60.3%       22.0       18       397       18       324       24       432         05       Ford       Taurus       338.7       405.1       743.8       167.9       45.5%       22.5       18       470       18       324       24       432         05       Ford       Taurus       378.3       490.4       868.7       19774       43.5%       22.8       18       470       18       324       24       432         05       Ford       Taurus       312.5       472.9       785.4       18300       39.8%       22.8       18       470       18       324       24       432         05       Ford       Taurus       0       25.5       205.5       485.2</td></t<></td></td></t<></td> | OS         Ford         Taurus         526.09         443.9           OS         Ford         Taurus         0         169.3           OS         Ford         Taurus         0         169.3           OS         Ford         Taurus         510.95         336.6           OS         Ford         Taurus         338.7         405.1           OS         Ford         Taurus         349.95         423.2           OS         Ford         Taurus         449.95         423.2           OS         Ford         Taurus         425.8         452.7           OS         Ford         Taurus         425.8         452.7           OS         Ford         Taurus         425.18         472.9           OS         Ford         Taurus         0         205.5           OS         Ford         Taurus         0         205.5           OS         Ford         Taurus         0         102.4           OS         Ford         Taurus         0         102.4           OS         Ford         Taurus         0         192.6           97         Ford         Taurus GL         179.9 | OS         Ford         Taurus         526.09         443.9  
      970.0           ODS         Ford         Taurus         0         169.3         169.3           ODS         Ford         Taurus         0         169.3         169.3           ODS         Ford         Taurus         338.7         405.1         743.8           ODS         Ford         Taurus         338.7         405.1         743.8           ODS         Ford         Taurus         349.9         423.2         873.1           ODS         Ford         Taurus         378.3         490.4         868.7           ODS         Ford         Taurus         312.5         472.9         785.4           ODS         Ford         Taurus         0         205.5         205.5           ODS         Ford         Taurus         0         205.5         205.5           ODS         Ford         Taurus         0         161.9         161.9           ODS         Ford         Taurus         0         192.6         192.6           ODS         Ford         Taurus GL         264.5         80.3         344.8           OP         Ford | OS         Ford         Taurus         526.09         443.9         970.0         20874           05         Ford         Taurus         0         169.3         169.3         3679           05         Ford         Taurus         510.95         336.6         847.6         18641           05         Ford         Taurus         338.7         405.1         743.8         16739           05         Ford         Taurus         449.95         423.2         873.1         19867           05         Ford         Taurus         378.3         490.4         868.7         19774           05         Ford         Taurus         312.5         472.9         785.4         18360           05         Ford         Taurus         0         205.5         205.5         4852           05         Ford         Taurus         0         161.9         161.1         3928           05         Ford         Taurus         0         161.9         161.1         3928           05         Ford         Taurus         0         192.6         192.6         5051           05         Ford         Taurus GL         0         191.8 | OS         Ford         Taurus         526.09         443.9         970.0         20874         54.2%           OD5         Ford         Taurus         0         169.3         169.3         3679         0.0%           OD5         Ford         Taurus         510.95         336.6         847.6         18641         60.3%           OD5         Ford         Taurus         338.7         405.1         743.8         16739         45.5%           OD5         Ford         Taurus         449.95         423.2         873.1         19867         51.5%           OD5         Ford         Taurus         378.3         490.4         868.7         19774         43.5%           OD5         Ford         Taurus         312.5         472.9         785.4         18360         39.8%           OD5         Ford         Taurus         0         205.5         205.5         4852         0.0%           OD5         Ford         Taurus         9         152.1         161.1         3928         5.6%           OD5         Ford         Taurus         0         161.9         161.9         4161         0.0%           OD5         Ford | OS         Ford         Taurus         526.09         443.9         970.0         20874         54.2%         21.5           OS         Ford         Taurus         0         169.3         169.3         3679         0.0%         21.7           OS         Ford         Taurus         510.95         336.6         847.6         18641         60.3%         22.5           OS         Ford         Taurus         338.7         405.1         743.8         16739         45.5%         22.5           OS         Ford         Taurus         378.3         490.4         868.7         19774         43.5%         22.8           OS         Ford         Taurus         378.3         490.4         868.7         19774         43.5%         22.8           OS         Ford         Taurus         312.5         472.9         785.4         18360         39.8%         23.4           OS         Ford         Taurus         0         205.5         205.5         4852         0.0%         23.6           OS         Ford         Taurus         0         161.9         161.1         392.8         5.6%         24.4           OS         Ford <t< td=""><td>05         Ford         Taurus         526.09         443.9         970.0         20874         54.2%         21.5         18           055         Ford         Taurus         0         169.3         169.3         3679         0.0%         21.7         78           055         Ford         Taurus         510.95         336.6         847.6         18641         60.3%         22.0         78           055         Ford         Taurus         338.7         405.1         743.8         16739         45.5%         22.8         78           055         Ford         Taurus         342.5         423.2         873.1         19867         51.5%         22.8         78           055         Ford         Taurus         425.8         452.7         878.5         19998         48.5%         22.8         78           055         Ford         Taurus         0         205.5         205.5         4852         0.0%         23.6         78           055         Ford         Taurus         0         161.9         161.1         3928         5.6%         24.4         78           055         Ford         Taurus         0         151.9</td><td>D5         Ford         Taurus         526.09         443.9         970.0         20874         54.2%         21.5         76         387           05         Ford         Taurus         0         169.3         169.3         367.9         0.0%         21.7         78         397           05         Ford         Taurus         510.95         336.6         847.6         18641         60.3%         22.0         76         366           05         Ford         Taurus         338.7         405.1         743.8         16739         45.5%         22.5         76         4055           05         Ford         Taurus         378.3         490.4         868.7         19774         43.5%         22.8         76         410           05         Ford         Taurus         312.5         472.9         785.4         18360         39.8%         23.4         76         427           05         Ford         Taurus         450.18         472.4         922.6         21894         48.8%         23.7         76         427           05         Ford         Taurus         0         161.9         161.1         3928         5.6%         24.4<td>05       Ford       Taurus       526.09       443.9       970.0       20874       54.2%       21.5       16       387       18         05       Ford       Taurus       0       169.3       169.3       3679       0.0%       21.7       16       397       18         05       Ford       Taurus       510.95       336.6       847.6       18641       60.3%       22.0       18       396       18         05       Ford       Taurus       338.7       405.1       743.8       16739       45.5%       22.5       16       405       18         05       Ford       Taurus       338.3       490.4       86.7       19774       43.5%       22.8       16       410       18         05       Ford       Taurus       332.5       472.9       85.4       18360       39.8%       23.4       16       427       18         05       Ford       Taurus       0       205.5       205.5       4852       0.0%       23.6       16       427       18         05       Ford       Taurus       9       152.1       161.1       3928       5.6%       24.4       16       439       <t< td=""><td>05       Ford       Taurus       526.09       443.9       970.0       20874       54.2%       21.5       18       387       18       324         05       Ford       Taurus       0       169.3       169.3       367       0.0%       21.7       16       397       18       324         05       Ford       Taurus       510.95       336.6       847.6       18641       60.3%       22.0       16       396       18       324         05       Ford       Taurus       338.7       405.1       743.8       16739       45.5%       22.5       15       405       18       324         05       Ford       Taurus       378.3       490.4       868.7       19774       43.5%       22.8       16       410       18       324         05       Ford       Taurus       312.5       472.9       785.4       19998       48.5%       22.8       16       410       18       324         05       Ford       Taurus       0       205.5       245.0       0.0%       23.6       16       427       18       324         05       Ford       Taurus       0       161.9       16</td><td>05       Ford       Taurus       526.09       443.9       970.0       2087.4       54.2%       21.5       76       337       78       324       24         05       Ford       Taurus       0       169.3       367       0.0%       21.1       76       397       78       324       24         05       Ford       Taurus       510.95       336.6       847.6       18641       60.3%       22.0       78       397       78       324       24         05       Ford       Taurus       338.7       405.1       743.8       167.39       45.5%       22.8       78       405       16       324       24         05       Ford       Taurus       378.3       490.4       868.7       1977.4       43.5%       22.8       78       470       78       324       24         05       Ford       Taurus       312.5       472.9       78.5       1999.8       45.5%       22.8       78       470       78       324       24         05       Ford       Taurus       0       25.5       4852       0.0%       23.6       78       427       78       324       24       24</td><td>05       Ford       Taurus       526.09       443.9       970.0       20874       54.2%       21.5       16       337       18       324       24       432         05       Ford       Taurus  
    0       169.3       169.3       367       0.0%       21.7       18       397       18       324       24       432         05       Ford       Taurus       510.95       336.6       847.6       18641       60.3%       22.0       18       397       18       324       24       432         05       Ford       Taurus       338.7       405.1       743.8       167.9       45.5%       22.5       18       470       18       324       24       432         05       Ford       Taurus       378.3       490.4       868.7       19774       43.5%       22.8       18       470       18       324       24       432         05       Ford       Taurus       312.5       472.9       785.4       18300       39.8%       22.8       18       470       18       324       24       432         05       Ford       Taurus       0       25.5       205.5       485.2</td></t<></td></td></t<> | 05         Ford         Taurus         526.09         443.9         970.0         20874         54.2%         21.5         18           055         Ford         Taurus         0         169.3         169.3         3679         0.0%         21.7         78           055         Ford         Taurus         510.95         336.6         847.6         18641         60.3%         22.0         78           055         Ford         Taurus         338.7         405.1         743.8         16739         45.5%         22.8         78           055         Ford         Taurus         342.5         423.2         873.1         19867         51.5%         22.8         78           055         Ford         Taurus         425.8         452.7         878.5         19998         48.5%         22.8         78           055         Ford         Taurus         0         205.5         205.5         4852         0.0%         23.6         78           055         Ford         Taurus         0         161.9         161.1         3928         5.6%         24.4         78           055         Ford         Taurus         0         151.9 | D5         Ford         Taurus         526.09         443.9         970.0         20874         54.2%         21.5         76         387           05         Ford         Taurus         0         169.3         169.3         367.9         0.0%         21.7         78         397           05         Ford         Taurus         510.95         336.6         847.6         18641         60.3%         22.0         76         366           05         Ford         Taurus         338.7         405.1         743.8         16739         45.5%         22.5         76         4055           05         Ford         Taurus         378.3         490.4         868.7         19774         43.5%         22.8         76         410           05         Ford         Taurus         312.5         472.9         785.4         18360         39.8%         23.4         76         427           05         Ford         Taurus         450.18         472.4         922.6         21894         48.8%         23.7         76         427           05         Ford         Taurus         0         161.9         161.1         3928         5.6%         24.4 <td>05       Ford       Taurus       526.09       443.9       970.0       20874       54.2%       21.5       16       387       18         05       Ford       Taurus       0       169.3       169.3       3679       0.0%       21.7       16       397       18         05       Ford       Taurus       510.95       336.6       847.6       18641       60.3%       22.0       18       396       18         05       Ford       Taurus       338.7       405.1       743.8       16739       45.5%       22.5       16       405       18         05       Ford       Taurus       338.3       490.4       86.7       19774       43.5%       22.8       16       410       18         05       Ford       Taurus       332.5       472.9       85.4       18360       39.8%       23.4       16       427       18         05       Ford       Taurus       0       205.5       205.5       4852       0.0%       23.6       16       427       18         05       Ford       Taurus       9       152.1       161.1       3928       5.6%       24.4       16       439       <t< td=""><td>05       Ford       Taurus       526.09       443.9       970.0       20874       54.2%       21.5       18       387       18       324         05       Ford       Taurus       0       169.3       169.3       367       0.0%       21.7       16       397       18       324         05       Ford       Taurus       510.95       336.6       847.6       18641       60.3%       22.0       16       396       18       324         05       Ford       Taurus       338.7       405.1       743.8       16739       45.5%       22.5       15       405       18       324         05       Ford       Taurus       378.3       490.4       868.7       19774       43.5%       22.8       16       410       18       324         05       Ford       Taurus       312.5       472.9       785.4       19998       48.5%       22.8       16       410       18       324         05       Ford       Taurus       0       205.5       245.0       0.0%       23.6       16       427       18       324         05       Ford       Taurus       0       161.9       16</td><td>05       Ford       Taurus       526.09       443.9       970.0       2087.4       54.2%       21.5       76       337       78       324       24         05       Ford       Taurus       0       169.3       367       0.0%       21.1       76       397       78       324       24         05       Ford       Taurus       510.95       336.6       847.6       18641       60.3%       22.0       78       397       78       324       24         05       Ford       Taurus       338.7       405.1       743.8       167.39       45.5%       22.8       78       405       16       324       24         05       Ford       Taurus       378.3       490.4       868.7       1977.4       43.5%       22.8       78       470       78       324       24         05       Ford       Taurus       312.5       472.9       78.5       1999.8       45.5%       22.8       78       470       78       324       24         05       Ford       Taurus       0       25.5       4852       0.0%       23.6       78       427       78       324       24       24</td><td>05       Ford       Taurus       526.09       443.9       970.0       20874       54.2%       21.5       16       337       18       324       24       432         05       Ford       Taurus       0       169.3       169.3       367       0.0%       21.7       18       397       18       324       24       432         05       Ford       Taurus       510.95       336.6       847.6       18641       60.3%       22.0       18       397       18       324       24       432         05       Ford       Taurus       338.7       405.1       743.8       167.9       45.5%       22.5       18       470       18       324       24       432         05       Ford       Taurus       378.3       490.4       868.7       19774       43.5%       22.8       18       470       18       324       24       432         05       Ford       Taurus       312.5       472.9       785.4       18300       39.8%       22.8       18       470       18       324       24       432         05       Ford       Taurus       0       25.5       205.5       485.2</td></t<></td> | 05       Ford       Taurus       526.09       443.9       970.0       20874       54.2%       21.5       16       387       18         05       Ford       Taurus       0       169.3       169.3       3679       0.0%       21.7       16       397       18         05       Ford       Taurus       510.95       336.6       847.6       18641       60.3%       22.0       18       396       18         05       Ford       Taurus       338.7       405.1       743.8       16739       45.5%       22.5       16       405       18         05       Ford       Taurus       338.3       490.4       86.7       19774       43.5%       22.8       16       410       18         05       Ford       Taurus       332.5       472.9       85.4       18360       39.8%       23.4       16       427       18         05       Ford       Taurus       0       205.5       205.5       4852       0.0%       23.6       16       427       18         05       Ford       Taurus       9       152.1       161.1       3928       5.6%       24.4       16       439 <t< td=""><td>05       Ford       Taurus       526.09       443.9       970.0       20874       54.2%       21.5       18       387       18       324         05       Ford       Taurus       0       169.3       169.3       367       0.0%       21.7       16       397       18       324         05       Ford       Taurus       510.95       336.6       847.6       18641       60.3%       22.0       16       396       18       324         05       Ford       Taurus       338.7       405.1       743.8       16739       45.5%       22.5       15       405       18       324         05       Ford       Taurus       378.3       490.4       868.7       19774       43.5%       22.8       16       410       18       324         05       Ford       Taurus       312.5       472.9       785.4       19998       48.5%       22.8       16       410       18       324         05       Ford       Taurus       0       205.5       245.0       0.0%       23.6       16       427       18       324         05       Ford       Taurus       0       161.9       16</td><td>05       Ford       Taurus       526.09       443.9       970.0       2087.4       54.2%       21.5       76       337       78       324       24         05       Ford       Taurus       0       169.3       367       0.0%       21.1       76       397       78       324       24         05       Ford       Taurus       510.95       336.6       847.6       18641       60.3%       22.0       78       397       78       324       24         05       Ford       Taurus       338.7       405.1       743.8       167.39       45.5%      
22.8       78       405       16       324       24         05       Ford       Taurus       378.3       490.4       868.7       1977.4       43.5%       22.8       78       470       78       324       24         05       Ford       Taurus       312.5       472.9       78.5       1999.8       45.5%       22.8       78       470       78       324       24         05       Ford       Taurus       0       25.5       4852       0.0%       23.6       78       427       78       324       24       24</td><td>05       Ford       Taurus       526.09       443.9       970.0       20874       54.2%       21.5       16       337       18       324       24       432         05       Ford       Taurus       0       169.3       169.3       367       0.0%       21.7       18       397       18       324       24       432         05       Ford       Taurus       510.95       336.6       847.6       18641       60.3%       22.0       18       397       18       324       24       432         05       Ford       Taurus       338.7       405.1       743.8       167.9       45.5%       22.5       18       470       18       324       24       432         05       Ford       Taurus       378.3       490.4       868.7       19774       43.5%       22.8       18       470       18       324       24       432         05       Ford       Taurus       312.5       472.9       785.4       18300       39.8%       22.8       18       470       18       324       24       432         05       Ford       Taurus       0       25.5       205.5       485.2</td></t<> | 05       Ford       Taurus       526.09       443.9       970.0       20874       54.2%       21.5       18       387       18       324         05       Ford       Taurus       0       169.3       169.3       367       0.0%       21.7       16       397       18       324         05       Ford       Taurus       510.95       336.6       847.6       18641       60.3%       22.0       16       396       18       324         05       Ford       Taurus       338.7       405.1       743.8       16739       45.5%       22.5       15       405       18       324         05       Ford       Taurus       378.3       490.4       868.7       19774       43.5%       22.8       16       410       18       324         05       Ford       Taurus       312.5       472.9       785.4       19998       48.5%       22.8       16       410       18       324         05       Ford       Taurus       0       205.5       245.0       0.0%       23.6       16       427       18       324         05       Ford       Taurus       0       161.9       16 | 05       Ford       Taurus       526.09       443.9       970.0       2087.4       54.2%       21.5       76       337       78       324       24         05       Ford       Taurus       0       169.3       367       0.0%       21.1       76       397       78       324       24         05       Ford       Taurus       510.95       336.6       847.6       18641       60.3%       22.0       78       397       78       324       24         05       Ford       Taurus       338.7       405.1       743.8       167.39       45.5%       22.8       78       405       16       324       24         05       Ford       Taurus       378.3       490.4       868.7       1977.4       43.5%       22.8       78       470       78       324       24         05       Ford       Taurus       312.5       472.9       78.5       1999.8       45.5%       22.8       78       470       78       324       24         05       Ford       Taurus       0       25.5       4852       0.0%       23.6       78       427       78       324       24       24 | 05       Ford       Taurus       526.09       443.9       970.0       20874       54.2%       21.5       16       337       18       324       24       432         05       Ford       Taurus       0       169.3       169.3       367       0.0%       21.7       18       397       18       324       24       432         05       Ford       Taurus       510.95       336.6       847.6       18641       60.3%       22.0       18       397       18       324       24       432         05       Ford       Taurus       338.7       405.1       743.8       167.9       45.5%       22.5       18       470       18       324       24       432         05       Ford       Taurus       378.3       490.4       868.7       19774       43.5%       22.8       18       470       18       324       24       432         05       Ford       Taurus       312.5       472.9       785.4       18300       39.8%       22.8       18       470       18       324       24       432         05       Ford       Taurus       0       25.5       205.5       485.2 |

Mileage Extrapolated to include 4 quarters for FY08 Annual Average 15352.73896 = Approximately 15,000

\* Combined MPG estimates are based on 90% highway and 10% city driving. The old EPA MPG estimates are listed on the window stickers of 2007 and earlier model year vehicles. Source: www.fueleconomy.gov

Input by TranSystems from auto specs and vehicle data sheets in Appendix B

Appendix D

# Calculations for MoDOTs FFV to Determine

Average Annual Reductions in

Carbon Footprint & Energy Impact Score

Provided by

TranSystems



Annual Impact of Fueling FFVs with E85 as Compared to Gasoline: Carbon Footprint & Energy Impact Score

Vehicle Make	Model	Number of FFVs in MoDOTs Fleet (FY08)	Average Annual Tons of CO2 per FFV w/ Gasoline	Average Annual Tons of CO2 per FFV w/ E85	Annual Reduction in Carbon Footprint (Tons of CO2)	Average Annual Barrels of Petroleum Consumed per FFV w/ Gasoline	Average Annual Barrels of Petroleum Consumed per FFV w/ E85	Annual Reduction in Petroleum Consumption (Barrels)
Chevrolet	Impala	189	6.8	5.6	226.8	12.7	4.0	1644.3
Chevrolet	Silverado 1500	260	10.5	8.0	663.0	19.6	5.8	3588.0
Dodge	Caravan	8	8.4	7.4	7.6	15.6	5.3	82.4
Dodge	Ram 1500	26	13.1	11.1	52.0	13.1	11.1	52.0
Dodge	Stratus	75	7.7	6.2	112.5	14.3	4.4	742.5
Ford	Explorer	31	10.2	8.3	58.9	19.0	6.0	403.0
Ford	Taurus	112	7.7	6.3	159.9	14.3	4.5	1102.1
				Totals	1281			7614



Appendix E

# Success Story/Case Study Summaries

Presented by

U.S. Department of Energy

Energy Efficiency and Renewable Energy Alternative Fuels & Advanced Vehicles Data Center

http://www.eere.energy.gov/afdc/e85toolkit/success.html



## Success Stories/Case Studies

The following summaries describe some successful E85 fleet operations. Also included is the contact information for the fleet managers who are willing to help others establish E85 fueling stations. Stories below Include:

- Above Ground Tank supplies E85 to more than 1,000 FFVs
- Federal Lab Opens California's First E85 Fueling Site
- University Gets E85 Online with Minimal Costs
- 28,000 Gallons of E85 Used Annually, After Permitting Hurdles Were Overcome
- Proper Planning Make E85 Infrastructure Installations Successful
- Power Company Fuels 54 FFVs with 900 Gallons Monthly
- Space Center Dedicated to E85 Use
- Skid Mounting Proves Successful with Electric Company
- Trouble-Free E85 Tank Installation Credited to Project Contractor
- Electric Company has 12,000 Gallon E85 Tank Fueling 69 FFVs
- 6,000-Gallon E85 Above Ground E85 Tank Fuels University Vehicles

### Above Ground Tank supplies E85 to more than 1,000 FFVs

#### Minnesota Department of Administration, Minneapolis, Minnesota

With one above ground tank in a concrete shell, the Minnesota Travel Management Division's (TMD) refueling station stores 2,000 gallons of E85 and receives new fuel deliveries every six weeks. On-line since the early 1990's, Tim Morse, director of the division, says TMD receive their E85 supply from a local supplier that also supplies other stations in the area. The division chose the above ground tank because it "is easier to maintain, as any problems or damage can be visually seen," Morse said.

With 1,130 FFVs in its fleet, the station is used mainly to refuel vehicles returned to the TMD. The site was installed in a cooperative project between the Department of Administration, the State Energy Office, and others.

### Federal Lab Opens California's First E85 Fueling Site

### Lawrence Berkeley National Laboratory, San Francisco, California

Lawrence Berkeley National Laboratory (LBNL) in 2003 opened the first E85 fueling station in California. A common alternative fuel in the Midwest, E85 has historically been rare on the West Coast.

Because of a state ban on MTBE, an oxygen-boosting gasoline additive, interest in E85 is increasing in California. "It's just a matter of time before it becomes commonplace here," says LBNL site services manager Bill Llewellyn.

When deciding on an alternative fuel, the lab then considered compressed natural gas and propane, but ruled them out because of financial constraints and other incompatibilities. "E85 made the most sense, but we didn't know where we'd get it," Llewellyn says.

LBNL was at a geographic disadvantage when it came to locating an ethanol supplier. Luckily, an Internet search turned up a cheese factory in southern California that could produce ethanol as a by-product of whey.

The station, which is accessible 24 hours a day, seven days a week and features one fuel dispenser and a 4,000gallon, above ground storage tank, fuels the lab's more than 50 FFVs. LBNL's goal: "to go almost completely to E85," Llewellyn says-a goal the lab continues to strive toward.



### University Gets E85 Online with Minimal Costs

### University of Minnesota, Minneapolis, Minnesota

Minnesota, oversees two stations offering E85 fueling. The Minneapolis location, opened in July 2000, stores 6,000 gallons. The St. Paul location, opened in November of 2003, stores 4,000 gallons. "We added E85 when we either added or remodeled a fuel island, so cost was minimal," Roberts says.

Both stations receive fuel every four months from the Chippewa Valley Co-op, which also delivers to other E85 locations in the area. As a result of requiring all FFVs to use only E85, the fleet goes through about 1,600 gallons each month. "We are happy. While vehicles on E85 do get lower MPG this is offset by a lower price for fuel," Roberts says.

Roberts suggests using brochures and dashboard notices to encourage drivers to fill with E85, along with placing station lists in glove boxes. He also suggests partnerships as a way to ensure success. "I think partnering would be a good idea. As an example, I believe there are other government entities that have vehicles near my sites that could use my sites," he said.

### 28,000 Gallons of E85 Used Annually, After Permitting Hurdles Were Overcome

#### Cinergy Corporation, Cincinnati, Ohio

Cinergy has 230 FFVs in its fleet, and goes through about 28,000 gallons of E85 each year. To support this usage, they have two fueling stations, both with above ground storage tanks that hold approximately 2,000 gallons each.

The first station, opened in Cincinnati in 1999, had multiple permitting hurdles to clear, including roofing and containment requirements. Total cost was about \$30,000, and it was funded without help from outside sources.

The second station, opened in Plainfield, Indiana, in 2001, is a small, truck-portable unit that can be set up virtually anywhere, needing only an electric line by way of on-site amenities. Cinergy does not own or lease this station—it is owned by Growmark, Inc., which maintains the station on its behalf, provided only that Cinergy buy E85 from them.

Although they are generally happy with E85 use and operation, they have no plans for additional storage facilities because of the permitting requirements they ran into with their first station.

### Proper Planning Make E85 Infrastructure Installations Successful

### Georgia Power Company, Atlanta, GA

With four 550-gallon above ground tanks, Georgia Power Company's E85 fueling stations provide 3,200 gallons per month to 113 FFVs in its fleet. The stations, open since January of 2003, receive fuel deliveries every two to four weeks from United Energy Distributors.

Total cost for the stations was \$45,000. "Don't try to get by cheap—you'll pay for it later with problems," Tony Saxon of Georgia Power Company suggests. "Do the homework up front. Don't assume the builders understand E85. We got information from talking to people putting stations in Minnesota concerning compatible equipment," he said.



#### Power Company Fuels 54 FFVs with 900 Gallons Monthly

#### Santee Cooper Power, Moncks Corner, SC

Santee Cooper Power operates three E85 fueling stations, including two in Myrtle Beach and one at their headquarters in Monck's Corner. Each station stores 1,000 gallons, and their 54 FFVs use 900 gallons each month. The E85 supply comes from United Energy, and is delivered every month to Monck's Corner and every two months to Myrtle Beach.

It cost \$36,000 for construction of the three sites. "The construction was done by internal (Santee Cooper) folks. It was four months between jobs. We put in containment walls even though we didn't need to. The equipment was delivered quickly," David Vanosdoll of Santee Cooper Power said.

#### Space Center Dedicated to E85 Use

#### Stennis Space Center, Mississippi

In 2002, the National Aeronautic and Space Administration (NASA) instituted One NASA, a concept that seeks to build unity and collaboration among its centers by using agency resources for the common good.

NASA's Stennis Space Center in south Mississippi is a shining example of this commitment. It consistently purchases alternative fuel vehicles to replace those that cycle out in its fleet. Of its fleet of 305 vehicles, 75 are E85 flexible fuel vehicles (FFVs).

Stennis is dedicated to fueling its FFVs with E85. The center retrofitted one of its two 10,000-gallon gasoline tanks to accommodate E85 and drivers are instructed to use E85 at all times, if possible. To ensure this, drivers are given a key rather than a credit card used to fuel the vehicles. Only if the vehicle leaves the site is the driver issued a credit card to buy gasoline.

#### Skid Mounting Proves Successful with Electric Company

#### Tampa Electric, Tampa, FL

Open since early 2001, Tampa Electric's three E85 fueling stations provide fuel for its 49 FFVs, which use about 6,000 gallons each year. The three stations (two on skids, one on a trailer) each store 275 gallons. One will be increased to a 500-gallon tank in the near future. Each station receives fuel on a weekly basis from Ward Oil.

Dan Shields of Tampa Electric explains their decision to use skid mounting. "It saved a lot of trouble, and involved a small tank which simplified things. This meant they were also moveable, so you could close a location and move it to the fleet. Doing skid mounting really avoided the leaking underground storage tank issues, which would have significantly complicated things," he said.

The construction was funded internally, and the company took the EPAct tax deduction.

#### Trouble-Free E85 Tank Installation Credited to Project Contractor

#### Kansas City Board of Public Utilities, Kansas City, Kansas

With a 5,000-gallon tank supporting 30 FFVs, Kansas City Board of Public Utilities' (KCBPU) E85 fueling station uses approximately 24,000 gallons of E85 each year. The tank, on-line since September 2000, receives fuel every six weeks from Carter Energy.

Harold Creason of KCBPU made the decision to go with E85. "I consulted the other two utilities in town, which were using CNG and propane, respectively. I decided to go with a liquid alternative fuel, and E85 seemed to fit the bill," he said.

Station installation cost \$56,000. Double Check Company Inc. installed the E85 tank. Creason credits Double Check's competence for the trouble-free experience KCBPU has had with their tank.



### Electric Company has 12,000 Gallon E85 Tank Fueling 69 FFVs

### Nashville Electric Service, Nashville, TN

A 12,000-gallon tank provides E85 to a fleet of 69 FFVs for the Nashville Electric Service. The tank, which went online in October 2001, receives regular fuel deliveries every five weeks from Hollingsworth Oil Company. The fleet uses approximately 6,000 gallons per month.

The station, which cost \$81,186 and was funded internally, was constructed in about five months. The project came in on schedule after local code authorities approved construction, and their general contractor was selected through competitive bid.

### 6,000-Gallon E85 Above Ground E85 Tank Fuels University Vehicles

### St. Cloud State University, St. Cloud, Minnesota

St. Cloud State University's 6,000-gallon E85 storage tank, which has been on-line for two years, receives fuel deliveries from Chippewa Valley every two to three months. The site, which provides fuel for the University's 17 FFVs, goes through about 900 gallons of E85 each month.

After receiving a \$5,000 grant from the American Lung Association of Minnesota via the Twin Cities Clean Cities and U.S. Department of Energy Clean Cities activities and the Minnesota Department of Commerce Energy Division, the University asked three companies to provide quotes for the project and took the lowest quote. "We did not have many options. We had one 6,000-gallon tank for regular fuel. We converted the 6,000-gallon tank to E85 fuel use and installed two double walled, above ground 2,000-gallon tanks for our other fuel," Jim Williams, Fleet Supervisor, said. Williams suggests placing E85 stickers on the gas lids and doors to remind drivers to fill with E85. "We let our users know that they are driving FFV and should use E85 fill-ups when possible."

## **Fleet Managers**

These fleet managers have provided some of the comments in the lessons learned and success stories above. They are also willing to be contacted by other fleet managers who are interested in E85 infrastructure.

- Tim Morse, Fleet Director Minnesota Dept of Administration 651-201-2511 or tim.morse@state.mn.us
- Jim Williams, Director Buildings & Grounds Saint Cloud State University JAWilliams@stcloudstate.edu
- Bill Roberts, Director, Fleet Services University of Minnesota 612-625-8020 or <u>rober029@tc.umn.edu</u>
- Dan Utes, Fleet Services Representative US General Services Administration-Fleet 612-725-3240 or <u>daniel.utes@gsa.gov</u>
- Bill Gauthier, Manager
   Equipment Services Division
   City of Minneapolis
   612-673-5738 or william.gauthier@ci.minneapolis.mn.us

