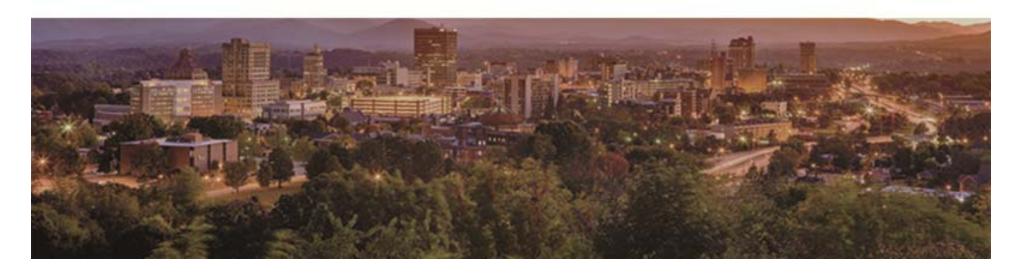




Motor Fleet Management



Garage, Repair Authorization and Motor Pool



Garage, Repair Authorization, Motor Pool



Garage

10 mechanics

4,000 vehicles repaired per year (average)

Ability to check used vehicles for reassignment is a big plus for the State.

Normal scheduled maintenance is completed within 24 hours or during the same business day (last ten months).

\$80,000 saved from salvaging parts from damaged State vehicles.



Garage, Repair Authorization, Motor Pool

Repair Authorization

Addresses the needs of state employees throughout the state, assisting drivers to find repair shops in their area that are willing to invoice the state for payment.

Assists drivers that may breakdown or have an accident and need a tow truck and/or rental.

Notifies drivers and supervisors of upcoming/past due maintenance and inspections.



Replacement Formula, Vehicle Purchase, & Funding Model

Replacement Model



Vehicle replacements are prioritized using the following criteria:

- Age 10 Years or older
- Mileage 125,000 miles or more
- Average miles driven by class of vehicle
- Cost of fuel by class of vehicle
- Condition maintenance cost are > 50% of the acquisition price.
- Used value of vehicles (according to NADA, Kelly blue book)
- Used Motor Fleet Vehicle Value (vehicle sell price from State Surplus Property)
- Cost of current value of new vehicle





Vehicle Replacement Model





Vehicle Age	1st year	2nd Year	3rd Year	4th Year	5th Year	6th Year	7th Year	8th Year	9th Year	10th Year	11th Year	12th Year	13th Year	14th Year	Instructions
															1.) Input average miles driven by class, per year of service
															(model year), i.e. current year would be the "1st year", 2014
Mles	5,159	8,144	9,039	9,676	9,182	8,703	8,512	7,506	7,230	6,208	6,254	5,249	6,521		would be 2nd year, etc.
															Input average maintenance costs by class, per year of service (model year)
Maintenance Cost Per Year	\$372	\$701	\$944	\$1,261	\$1,367	\$1,354	\$1,429	\$1,108	\$1,454	\$1,639	\$1,621	\$2,101	\$1,562	7.00	[Calculated]: (Maintenance cost per year) / (Miles Driven
Cost Per Mile	\$0.072	\$0.086	\$0.104	\$0.130	\$0.149	\$0.156	\$0.168	\$0.148	\$0.201	\$0,264	\$0.259	\$0.400	\$0.240		per year)
Cost Per Mile	\$0.072	\$0.086	\$0.104	\$0.130	\$0.149	\$0.100	\$0.108	\$0.148	\$0.201	\$0.264	\$0.258	\$0.400	\$0.240		3.) Choose "Yes" or "No" based on whether or not the
Decision	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No		vehicle year had typical usage (this will be used to calculate
200001	110	100	100	100	100	100	100	110	110	110	110	110	110		[Calculated]: % Increase in Cost per Mile
% Increase		19.37%	21.33%	24.79%	14.24%	4.50%	7.91%								
															[Calculated]: Average increase
Avg. Increase - Normal Use							15.369	%							
															[Calculated]: Later years adjusted for average increase
Adjusted Cost Per Mile	\$0.072	\$0.086	\$0.104	\$0.130	\$0.149	\$0.156	\$0.168	\$0.194	\$0.223	\$0.258	\$0.297	\$0.343	\$0.396		
															[Calculated]: Average miles driven per year (normal use)
Average Miles		ı					8,876				ı			ı	[O-1-1-1-1] (O-1-1-1-1) * (A
O (N LIET C	0040	0704	0007	04.457	04.004	A 4 0 04	0.4.400	04.040	04.705	00.040	#0.004	00.550	00.400		[Calculated]: (Cost per mile) * (Avg miles driven per year)
Cost on Normal Utilization	\$640	\$764	\$927	\$1,157	\$1,321	\$1,381	\$1,490	\$1,310	\$1,785	\$2,343	\$2,301	\$3,553	\$2,126	. ,	[Calculated]: (Adjusted cost per mile) * (Avg miles driven
Cost. normalized plus escalation	\$640	\$764	\$927	\$1.157	\$1.321	\$1.381	\$1.490	\$1.719	\$1.983	\$2.287	\$2.639	\$3.044	\$3.511		per year)
Cost, normalized plus escalation	\$040	\$704	\$92 <i>1</i>	\$1,137	\$1,321	\$1,301	\$1,490	\$1,719	\$1,903	\$2,201	\$2,038	\$3,044	Φ 3,311		4.) Enter cost of fuel per gallon
Cost of Fuel per Gallon							\$3.00)							
OGST OF F UCF PET GUILOTT							ψο.οι								5.) Enter estimated fuel economy degradation assumption
Estimated Fuel Degradation (%)	2%										% (applies year 6 onwards)				
(.,,															6.) Enter average MPG
															[Calculated]: (Avg MPG) * (1 - Estimated % Degradation
Estimated Average MPG	20.00	20.00	20.00	20.00	20.00	19.60	19.21	18.82	18.45	18.08	17.72	17.36	17.02		after year 5)
0										4.			1		[Calculated]: [(Avg Miles) / (Avg MPG Yrs 1 to 5)] * Fuel
Cost of Fuel	\$1,331	\$1,331	\$1,331	\$1,331	\$1,331	\$1,359	\$1,386	\$1,415	\$1,443	\$1,473	\$1,503	\$1,534	\$1,565	\$1,597	cost per gallon



Replacement model Page 1 of 2

Vehicle Replacement Model This is a sample of the information used to calculate replacement



Age of Vehicle	Total Cost for # of Years	Cost per Year	Avg Fuel Cost Per year	Model Year	Model Year Average Mileage	Used Vehicle Values (Industry)	Used Vehicle Values (MFM)	NewUnit Price	Average Annual Cost to Own (Industry)	Average Annual Cost to Own (MFM)
4	\$3,488	\$872	\$1,331	2011	35,504	\$11,150	\$1,108	\$ 18,843	\$4,127	\$6,637
5	\$4,809		\$1,331	2010			\$1,761			\$5,710
6	\$6,190				,		\$1,979			
7	\$7,680	\$1,097	\$1,343	2008	62,132	\$8,100	\$1,154	\$18,843	\$3,975	
8	\$9,399				71,008					
10	\$13,669		\$1,373				\$497			
12	\$19,352	\$1,613		2003	,					
14	\$26,913				124,264					

Field	Instructions
Age of Vehicle	7.) Enter in Age of Vehicle (years in service)
Total Cost for # of Years	[Calculated]: Sum of Normalized Cost over # of years.
Cost per Year	[Calculated]: (Total Cost for # of Years) / (Age of Vehicle)
Fuel Cost Per year:	[Calculated]: C ost of annual fuel based on normal utilization
Model Year	8.) Input Model Year
Model Year Average Mileage	[Calculated]: (Age of Vehicle) * (Average Miles)
U sed Vehicle Values (Industry)	9.) Input used vehicle salvage values based on class and age (Public Auction, NADA, Kelly Blue Book, etc).
U sed Vehicle Values (MFM)	10.) Input used vehicle salvage values based on MFM data (by class and age)
N ew U nit Price	11.) Input price for new vehicle (replacement)
Average Annual Cost to Own (Industry)	[Calculated]: TCO based on Industry salvage value of vehicles.
Average Annual Cost to Own (MFM)	[Calculated]: TCO based on MFM salvage value of vehicles

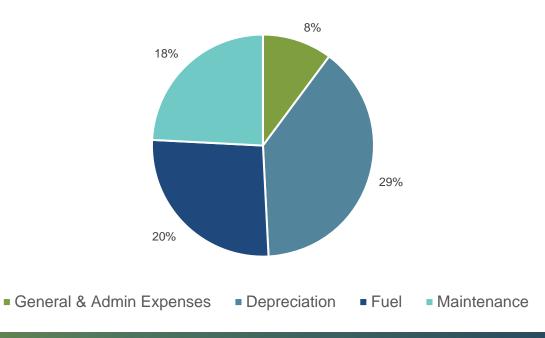
Replacement model Page 2 of 2



Funding Model

- Funding comes from two primary sources:
 - Per mile rates
 - \$35.00/month insurance fee per vehicle
- Per mile rates cover the maintenance, fuel, vehicle replacements, and general and administrative expenses.

Typical Vehicle Class Rate Breakdown









Rev. 3/07/13

MOTOR FLEET MANAGEMENT DIVISION VEHICLE RATE CHART

MONTHLY CHARGE IS BASED ON MILEAGE PLUS \$35.00 INSURANCE FEE MILEAGE REPORTED BASED ON FM-12 TRAVEL LOG

NEW RATES EFFECTIVE January 1, 2012

01.400	VEUIO E 7005	RATE PER	INSURANCE
CLASS	VEHICLE TYPE	MILE	RESERVE FEE
CS4	Insight (Gas/Electric)	0.27	\$35.00
CO4	Escape (Hybrid) 4x4	0.36	\$35.00
CO6	Liberty 4x4	0.38	\$35.00
FS6	Impala, Intrepid, Taurus	0.36	\$35.00
FS8	Crown Victoria	0.39	\$35.00
FL6	Impala LE, Interceptor LE Sedan	0.38	\$35.00
FL8	Charger, Crown Victoria, Caprice	0.42	\$35.00
FC8	1/2 Ton Cargo Van	0.39	\$35.00
FO8	Tahoe 4x4, Durango 4x4	0.49	\$35.00
FT8	F-150 4X4, F-250 4x4, Pick-up, Silverado 4X4	0.46	\$35.00
MC6	Caravan Cargo Minivan, Uplander Cargo Minivan	0.33	\$35.00
MS4	Cirrus, Breeze, Fusion	0.29	\$35.00
MH4	Prius (Hybrid),Civic (Hybrid)	0.29	\$35.00
MS6	Avenger, Malibu, Stratus	0.30	\$35.00
MO4	Geo Tracker 4x4	0.36	\$35.00
MO6	Explorer 4x4, Trailblazer 4x4, Interceptor SUV	0.39	\$35.00
MO8	Explorer 4x4, Grand Cherokee 4x4	0.49	\$35.00
MW6	Taurus Station Wagon	0.33	\$35.00
MP6	Caravan, Uplander	0.33	\$35.00
MT6	Ranger 4 x 4	0.31	\$35.00
XC8	3/4 Ton or greater Cargo Van, Handicap Van	0.44	\$35.00
XL8	Tahoe LE 2 x 4	0.57	\$35.00
YO8	Suburban 4 x 4	0.54	\$35.00
XO8	Expedition 4 x 4	0.50	\$35.00
XP8	15-Passenger Van	0.54	\$35.00
XS8	Crown Victoria Executive	0.39	\$35.00
XT8	1 Ton or Larger Truck, Box Truck (Mail)	0.65	\$35.00

* Explanation of Class Codes:

<u>First Column</u> is the size of vehicle (vehicle make subject to change with each model year and availability:

C = Compact Size M = Mid Size F = Full Size

X = Larger than full size, specially equipped, executive

XX = Extra Larger than full size

Second Column is the type of vehicle:

S = Sedan

W = Station Wagon

C = Cargo Carrying

P = Passenger carrying

T = Truck

H = Hybrid

Third Column is the number of cylinders:

4 = 4 cylinders

6 = 6 cylinders

8 = 8 cylinders

THEREFORE AN MS4 IS A MID-SIZE SEDAN 4 CYLINDERS



Utilization of Vehicles & Accident Report

Accident Report Calendar Year 2015

AGENCY	Vehicles Assigned	% Involved in an Accident	NC Driver's Fault	Not NC Driver's Fault	No Fault Vandal	Total Accidents
General Assembly	3	0.00%	0	0	0	0
Admin Office Of Courts	20	0.00%	0	0	0	0
Governors Office	1	0.00%	0	0	0	0
Secretary Of State, Dept. of	11	18.18%	0	2	0	2
Auditor, Office of State	10	0.00%	0	0	0	0
Treasurer, Dept. of State	6	0.00%	0	0	0	0
Public Instruction, Dept of	130	6.15%	2	2	0	8
Justice, Dept. of	46	0.00%	0	0	0	0
Agriculture, Depart. of	198	6.06%	1	6	0	12
MISC-Bd Cosmetics	15	13.33%	0	1	0	2
Labor, Dept. of	123	4.88%	2	1	0	6
Insurance, Dept. of	73	5.48%	1	2	0	4
Administration, Dept. of	80	3.75%	0	2	0	3
DOT-Transportation	574	7.49%	13	18	0	43
Environmental Quality Dept. of	312	2.88%	2	5	1	9
Wildlife Resources Commission	93	6.45%	4	0	0	6
DHHS	834	3.72%	6	16	1	31
ITS - Gov. Office	11	0.00%	0	0	0	0
Commerce, Dept. of	60	8.33%	0	4	0	5
Commerce-Employment Security	10	0.00%	0	0	0	0
Revenue, Dept. of	33	15.15%	1	2	0	5
Cultural Res, Dept. of Natural and	99	2.02%	1	0	0	2
Univ- UNC Hospitals	15	0.00%	0	0	0	0
DCC-Community Colleges	15	0.00%	0	0	0	0
MISC-Bd Elections	5	20.00%	0	1	1	1
NC Education Lottery Comm	83	21.69%	3	12	0	18
Office of Administrative Hearings	1	0.00%	0	0	0	0
Univ- School Of Science & Math	3	0.00%	0	0	0	0
MISC-Bd Barber Exam	2	0.00%	0	0	0	0
Community Colleges	50	2.00%	0	1	0	1
UNC System	792	1.77%	1	6	2	14
Global Transpark Authority	1	0.00%	0	0	0	0
NC Ports Authority	17	5.88%	0	1	0	1
Public Safety, Dept. of	3250	6.03%	70	73	13	196
** do a continuo de de consequentida de	6976**	5.29%	107	155	18	369

^{**} does not include the temporary fleet

