

University of North Carolina
at Wilmington

Facilities 112, Campus Box 5602		
601 South College Road		
Wilmington	NC	28403

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Fleet Information	
Total Leased Vehicles	44
Total County Titled Vehicles	0
Total State Titled Vehicles	126
Total Other Vehicles	61

Breakdown of State Titled Vehicles Only		
Vehicle Type	Quantity	Miles
Gasoline Only	123	462,500
Diesel	3	2,150
Hybrids	0	-
Flex-fueled Vehicles	0	-
Comp Natural Gas	0	-
Propane	0	-
Electric	0	-
Other	0	-
10% Eligible	0	-
Totals	126	464,650
adj 15% for accuracy '06-'07	145	534,348
adj for campus growth 10%	159	587,782

Fuel Information		
State Titled Vehicles Only		
Fuel Type	Gallons	Pet. Eqv.
Gasoline	42,235	42,235
E10	0	-
E85	0	-
Diesel	389	389
Off-road Diesel	0	-
B5	0	-
B20	0	-
B100	0	-
CNG	0	-
Propane	0	-
Other	0	-
	Quarts	
Petroleum Motor Oils	664	166
Syn & Rec Motor Oils	0	-
	Total	42,790
adj total by 15%		49,209
further adj by 10% ('08-'09)		54,129

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Instructions	Notes/Comments
Fill out all information (exception - miles if N/A)	Used best estimate for miles
Complete with data from fiscal year 2004-2005	
Please note if fuel includes more than State Vehicles	alternate contact: Tom Freshwater
Count hybrids and FFV's only once in the breakdown, do not count them as gasoline vehicles	
10% Eligible vehicles include police & emergency	
10% eligible educational vehicles must have specific modifications for instructional purposes	

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making Note of modified '06-'07 adj for better accuracy					
Potential Reduction in Petroleum use for your organization;		Projected Reduction			
Conservation	Reduce speeds, efficient cars, task pooling	1,284	gallons	=	3.00%
E10	Using E10 for all gasoline vehicles	4,224	gallons	=	9.87%
E85	Using E85 for all flex-fueled vehicles	-	gallons	=	0.00%
B5	Using B5 for all diesel vehicles	19	gallons	=	0.05%
B20	Using B20 for all diesel vehicles	78	gallons	=	0.18%
B100	Using B100 in 1/10th of your diesel vehicles	39	gallons	=	0.09%
FFV	Substituting one FFV using E85	231	gallons	=	0.54%
CNG/Propane	Replacing one vehicle with a CNG/LPG car	340	gallons	=	0.79%
Electric	Replacing one vehicle with an electric car	340	gallons	=	0.79%
Syn & Rec Oils	Using all synthetic and recycled motor oils	664	quarts	=	0.39%

adjustment for improved accuracy applies to 2006-'07, '07-'08
adjustment for student body growth applies to 2008-'09

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Fleet Information	2005-2006		2006-2007		2007-2008		2008-2009		2009-2010		2010-2011	
Vehicle Type	Total #	Miles	Total #	Miles	Total #	Miles	Total #	Miles	Total #	Miles	Total #	Miles
Gasoline	139	475,915	156	526,293	159	540,710	154	531,763	156	512,495	155	502,400
Diesel	3	3,219	3	6,284	3	1,099	3	1,753	3	2,359	3	4,513
Hybrid	-	-					2	5,737	2	3,698	2	4,467
Flex-fueled Vehicles	-	-										
Comp Natural Gas	-	-										
Propane	-	-										
Electric	-	-							1			
Emergency/Ed (10%)	-	-										
Totals	142	479,134	159	532,577	162	541,809	159	539,253	162	518,552	160	511,380
	13%	3%	10%	0%	12%	1%	0%	-8%	2%	-12%	0%	-13%

Fuel Information	2005-2006		2006-2007		2007-2008		2008-2009		2009-2010		2010-2011	
Fuel Type	Gal	Petr.	Gal	Petr.	Gal	Petr.	Gal	Petr.	Gal	Petr.	Gal	Petr.
Gasoline	41,860	41,860	48,128	48,128	49,158	49,158	47,086	47,086	41,771	41,771	41,882	41,882
E10		-		-		-	5,232	4,709	4,641	4,177	4,654	4,189
E85		-		-		-		-		-	-	-
Diesel	464	464	723	723	240	240	516	516	924	924	704	704
Off-road Diesel		-		-		-		-		-		-
B5		-		-		-		-		-		-
B20		-		-		-		-		-	-	-
B100		-		-		-		-		-		-
CNG		-		-		-		-		-		-
Propane		-		-		-		-		-		-
	Qrts		Qrts		Qrts		Qrts		Qrts		Qrts	
Petroleum Motor Oils	836	209	843	211	986	247	927	232	1,037	259	981	245
Syn & Rec Motor Oils		-		-		-		-		-		-
Total Petroleum Use		42,533		49,062		49,645		52,543		47,131		47,020
% Change in PDP		-1%		0%		1%		-3%		-12.9%		-13.1%

PDP goal by 2011: -20.0%

JO'N ref line # 38

10% adj for campus growth reflected by modified baseline applies '08-'09 and '09-'10

Info on Titled vehicles only (equipment not included)

all PDP participating fleets results to 2009-10			
Overall Results from all participating fleets			
	FY 2004-05	FY 2009-2010	
Fuel Type	thousand of gallons	thousand of gallons	% change
Gas	14,935	3,165	-79%
E10	598	11382	1803%
E85	242	398	64%
Diesel	8,526	1602	-81%
B5	-	7	
B20	1,870	8157	336%
B100	-	2	
Total Biodiesel as B20	1,870	8,167	337%
CNG	3	0	-92%
Propane	56	5	-91%
Petroleum Motor Oils	48	35	-27%
Syn & Rec Motor Oils	3	6	115%
Total Fuel	26,283	24,760	-5.8%
Total Petroleum	25,581	21,638	-15.4%
T.Fuel (adj. for growth)	26,877	24,760	-7.88%
T.Petro (adj for growth)	26,153	21,638	-17.26%

vehicles reported in PDP			
	FY 2004-05	FY 2009-2010	
Vehicle Types	#	#	% change
Gasoline	10,816	9,436	-13%
Hybrid	78	129	65%
Flex-fueled Vehicles	4,752	7,018	48%
Comp Natural Gas	14	5	-64%
Diesel	4,498	5,066	13%
Propane	192	150	-22%
Emergency/Ed (10%)	6,007	5,871	-2%
Electric	13	199	1431%
Total	26,370	27,874	6%

Of the Overall 17.5 % petroleum reduction:
3.95% displaced by reduced mileage (conservation)
4.01% displaced through E10 use
0.49% displaced through E85 use
4.7% displaced through biodiesel use
4.3% displaced through efficiency

Your organization result to date													
University of North Carolina at Wilmington					results to date (2009-10)								
					% Reductions Caused by PDP Actions (by FY 09-10) as reported								
% of Goal	State Organization	Petro Use	Petroleum Displacement Achievements	PDP Actions (Petroleum Reduction)	Miles	E10	E85	B5	B20	B100	CNG	Prop	Syn Moil
64%	UNC Wilmington	-12.72%	making progress, has not reached Goal	fleet increase, slight mileage increase, proportionate fuel increase	-12%	1.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

your organization plan to date								
University of North Carolina at Wilmington					report progress	plan next year and forward		
Petroleum Displacement	2005 thru2007	2007-2008	2008-2009	2009-2010		2010-2011	beyond 2011	
Actual								
-12.0%	decrease in mileage (against adjusted baseline) helps PDP			Increase max/min inventories of maintenance parts in on-site warehouse to reduce driving required to pick up needed parts around town.		Continue to increase inventories as budget and space allow.	Continue to increase inventories as budget and space allow.	
1.0%	Use of E10 has contributed toward PDP					Work with vendors to deliver Housekeeping supplies directly to individual buildings to reduce driving requirements of UNCW employees.	Continue efforts with Grainger to increaes amount of deliveries made directly to individual buildings instead of to on-site Warehouse.	Continue efforts with Grainger to increaes amount of deliveries made directly to individual buildings instead of to on-site Warehouse.
			Purchase electric golf carts to displace purchase of gasoline-powered trucks and other vehicles.	Continue purchase of golf carts and other utility vehicles in lieu of gasoline-powered trucks.		Continue purchase of golf carts and other utility vehicles in lieu of gasoline-powered trucks.		
PLAN				Request funding to modify tankage to allow purchase of alternative fuels.			Funding has been approved to modify tank farm.	
				Continue trend of purchasing smaller vehicles.		Two new vehicles planned for purchase this year will be smaller than historical purchases; 1 new vehicle will be a hybrid vehicle.	Continue the practice of maintaining correct tire inflation.	
				Ensure proper tire inflation is maintained.		Continue the practice of maintaining correct tire inflation.	Continue to reinforce efficient driving practices.	
				Reinforced efficient driving practices with employees (don't accelerate unnecessarily, cut off car instead of leaving it idling, etc.		Continue to reinforce efficient driving practices.	Maximize the use of phone and video conferences; held training workshops on campus instead of out-of-town	
space for Plan notes								

08-'09	09-'10	10-'11
10.86	10.86	
10.16	10.900	
-6.45%	0.37%	

Conservation and Efficiency

defining steps taken to reduce petroleum consumption

your fleet efficiency appears to be consistent with baseline efficiency

In the process of reporting PDP results we have been able to directly attribute petroleum use changes due to: mileage; alternative fuel use; number of vehicles; use of synthetic or recycled motor oil. Indirectly we have been attributing any other change to "change in efficiency", a positive change may be called "conservation". To better define what portion of PDP performance is due to "change in efficiency or conservation" Please answer the following:

Has your agency/ department/ organization initiated any steps, **not previously reported**, intended to improve fleet vehicle efficiency? Please place "X" as appropriate

	2009-'10	2010-'11		2009-'10	2010-'11
YES	X	X	NO		

what did you change? Place "X" in appropriate box(es)

examples: a mechanical change could include equipment changes to vehicles or fueling infrastructure to make them more efficient. New hybrid autos or new fuel card reader systems would be mechanical. Process change could be an accounting system change, vehicle reassignment, or a carpooling system. Behavior could be drivers improving fuel economy by driving more efficiently or drivers combining errands or carpooling to reduce mileage.

		2009-'10		2010-'11	
mechanical		X			
		yes	no	yes	no
1a	changed vehicle types	X			X
1b	use fuel management system				X
1c	use on-board idle reduction mechanism				X
1d	other mechanical system change				

		2009-'10		2010-'11	
process		X			
		yes	no	yes	no
2a	changed fuel accounting system				X
2b	reduced on-board weight				X
2c	set carpooling policy				X
2d	reassigned vehicles to reduce fuel use				X
2e	check tire pressure routinely	X		X	
2f	evaluate MPG performance by vehicle			X	
2g	other process system change				

		2009-'10		2010-'11	
behavior		X			
		yes	no	yes	no
3a	trained drivers on economical driving	X		X	
3b	reminded drivers to save fuel	X		X	
3c	set policy on idle reduction	X		X	
3d	evaluate driver behavior (on economy)				
3e	carefully observe speed limit	X		X	
3f	reward economical driving or punish inefficient driving				
3g	other behavior change			X	

when did you first change it? Place "question #" in box best marking when process began. There may be multiple marks.

mechanical
before 2005
FY 04-05
FY 05-06
FY 06-07
FY 07-08
FY 08-09
FY 09-10
FY 10-11

process
x
before 2005
FY 04-05
FY 05-06
FY 06-07
FY 07-08
FY 08-09
FY 09-10
FY 10-11

behavior
x
before 2005
FY 04-05
FY 05-06
FY 06-07
FY 07-08
FY 08-09
FY 09-10
FY 10-11

How did you change it? Please note question # you are referring to.

examples may include new procedures, training, or directives affecting vehicle choice or vehicle use; installation of new equipment to dispense fuel or account for its use.

mechanical
new in FY 2010-'11:
process
new in FY 2010-'11:
behavior
new in FY 2010-'11: Limited travel for training by use of tele-conferencing, video-conferencing, and conducting group training on-site.

From your Results Noted tab you are now aware of what portion of your PDP performance change (positive or negative) was attributed to efficiency and conservation last year.

Your '09-'10 PDP report indicated 0.37% was attributed to change in efficiency. Of the noted changes in each of these three categories what part will you attribute to current and future activities in each?
Your answers may total 0% if not applicable, otherwise the total will be 100%.

FY	2009-10	mechanical	
FY	2010-11	mechanical	0
FY	2011-12	mechanical	

FY	2009-10	process	
FY	2010-11	process	0.00%
FY	2011-12	process	

FY	2009-10	behavior	
FY	2010-11	behavior	0.10%
FY	2011-12	behavior	