Fayetteville State University

Fleet Inf	ormation	
Total Leased Vehicles		22
Total County Titled Vel	nicles	0
Total State Titled Vehic	eles	45
Total Other Vehicles		47
Breakdown of State	Titled Vehic	les Only
Vehicle Type	Quantity	Miles
Gasoline Only	48	184,000
Diesel	6	23,000
Hybrids	-	-
Flex-fueled Vehicles	-	-
Comp Natural Gas	-	-
Propane	-	-
Electric	-	-
Other	-	-
10% Eligible	_	-
Totals	54	207,000

1200 Murchinson Road		
Fayetteville	NC	28301

Fuel Inf	ormation	
State Titled	Vehicles Only	ÿ
Fuel Type	Gallons	Pet. Eqv.
Gasoline	9,800	9,800
E10	0	-
E85	0	-
Diesel	2,806	2,806
Off-road Diesel	0	-
B5	0	-
B20	0	-
B100	0	-
CNG	0	-
Propane	0	-
Other	0	-
	Quarts	
Petroleum Motor Oils	235	59
Syn & Rec Motor Oils	0	
	Total	12,665

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Fu	eling Infi	rastructur	e
Location	Age	Size	Fuel
Campus	1	1 1000	Gas
Campus	1	1 1500	Diesel
Potenti	al for Bio	fuels Expa	nsion
Location	Space	Tk Size	Fuel
Campus	<u> </u>	1500	BioDsl
		1	1

20.0%

10tals 34 207,000	10tal 12,003				
Instructions	Notes/Comments	Potenti	ial for Bio	fuels Expa	nsio
Fill out all information (exception - miles if N/A)	Data is based on 2006-07 data because	Location	Space	Tk Size	Fue
Complete with data from fiscal year 2004-2005	this was the first year that accurate mileage	Campus		1500	BioD
Please note if fuel includes more than State Vehicles	was recorded and fuel for other vehicles				
Count hybrids and FFV's only once in the breakdown,	could be excluded				
do not count them as gasoline vehicles	Adjustments included no B20 use in 04-05,				
10% Eligible vehicles include police & emergency	no synthetic motor oils, and slight increase in				
10% eligible educational vehicles must have	gasoline due to the more efficient trucks that				
specific modifications for instructional purposes	were used in 06-07				
	More vehicles were gasoline in 04-05				

Potential Reduction	in Petroleum use for your organization;	Pı	ojected Re	ducti	on	Petroleum
Conservation	Reduce speeds, efficient cars, task pooling	380	gallons	=	3.00%	Displacement
E10	Using E10 for all gasoline vehicles	980	gallons	=	7.74%	Goal: 20.0%
E85	Using E85 for all flex-fueled vehicles	-	gallons	=	0.00%	2,533 gallons
B5	Using B5 for all diesel vehicles	140	gallons	=	1.11%	
B20	Using B20 for all diesel vehicles	561	gallons	=	4.43%	
B100	Using B100 in 1/10th of your diesel vehicles	281	gallons	=	2.22%	
FFV	Substituting one FFV using E85	159	gallons	=	1.26%	
CNG/Propane	Replacing one vehicle with a CNG/LPG car	235	gallons	=	1.85%	
Electric	Replacing one vehicle with an electric car	235	gallons	=	1.85%	
Syn & Rec Oils	Using all synthetic and recycled motor oils	235	quarts	=	0.46%	

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Petroleum						Initial	
Displacement	2005-2007	2007-2008	2008-2009	2009-2010	2010-2011	Cost	Yearly Cost
1.5%	Started a switch to B20 Dies	sel (total of 1,000 gallons)	l .				\$3,000.00
0.5%	Synthetic Lubricants				110 Gla		\$1,700.00
2.0%	Conservation use smaller pi	ckup trucks vs. full size 8cvl	S				
	E-10	1 5			9500 Gal	\$600.00	\$25,000,00
						+ • • • • • • •	+,
2.004							
3.0%		Increase B20 use to 3,000 g	allons per year				
		Please note we use less the	n 1500 gations per year				
	•						
Totals	4 00%	7%				\$600.00	\$29 700 00
100015	1.0070	770				φ000.00	φ27,100.00
Dessible additional	vahiala purchasas from	2006 2010					
Voor	Quantity Vahiala Tyra	and Description	Durnoso	Fuel / Unbrid		Additional	Cost
1 Cal 2007	1 Nev		r urpose	Flectric		Auunional	
2007	12 Nev			Electric			130,952.00
2009	1 Nev			Electric			16,000.00

Fayetteville Sta	te Unive	ersity		Fleet and	d Fuel R	eporting		Ray Willian 910-672-18 awilliams@un	ns/ Tony Mil 27/ 1876 acfsu.edu; jmilo	one neuncfsu.edu		
Fleet Information	200	5-2006	200	6-2007	200	7-2008	200	8-2009	200	9-2010	201	0-2011
Vehicle Type	Total #	Miles	Total #	Miles	Total #	Miles	Total #	Miles	Total #	Miles	Total #	Miles
Gasoline	46		43	82,763	46	82,376	40	112,774	33	98,726	32	102,764
Diesel	6		10	121,342	6	95,628	7	6,449	7	3,740	7	3,420
Hybrid	-		-	-								
Flex-fueled Vehicles	_		1	2,795	1		1	4,870	-			
Comp Natural Gas	-		-	-								
Propane	-		-	-								
Electric	-		-	-	16	300	14	14,270	15	15,713	16	15,926
Emergency/Ed (10%)	-		-	-								
Totals	52	N/A	54	206,900	69	178,304	62	138,363	55	118,179	55	122,110
_	<u> </u>	N/A	0%	0%	28%	-14%	15%	-33%	2%	-43%	2%	-41%
Fuel Information	200	5-2006	200	6-2007	200	7-2008	200	8-2009	200	9-2010	201	0-2011
Fuel Type	Gal	Petr.	Gal	Petr.	Gal	Petr.	Gal	Petr.	Gal	Petr.	Gal	Petr.
Gasoline	14,570	14,570	9,586	9,586	9,452	9,452	9,925	9,925	7,033	7,033		-
E10	-	-	-	-		-		-		-	9,407	8,466
E85	-	-	-	-		-		-		-		-
Diesel	2,280	2,280	1,856	1,856	1,724	1,724	1,095	1,095	1,166	1,166	1,055	1,055
B5	-	-	-	-		-		-		-		-
B20	-	-	950	760		-		-		-		-
B100	-	-	-	-		-		-		-		-
CNG	-	-	-	-		-		-		-		-
Propane	-	-	-	-		-		-		-		-
	Qrts		Qrts		Qrts		Qrts		Qrts		Qrts	
Petroleum Motor Oils	200	50	35	9	165	41	168	42	90	23	102	26
Syn & Rec Motor Oils	20	-	200	-	510	-	255	-	400	-	386	-
		4 < 0.0.0				4 4 4 4 4						
Total Petroleum Use		16,900		12,211		11,217		11,062		8,222		9,547
Total Petroleum Use % Change in PDP		16,900 -		12,211 -4%]	11,217 -11%		11,062 -13%		8,222 -35%		9,547 -25%

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Results Noted (by FY 2009-10) as relate to your PLAN

Plan for FY 2011-12

all PDP participating flee	ts results to 2009-10								1						
	Overall Results from	all participating fleets			vehicle	les reported in	PDP								
	FY 2004-05	FY 200	9-2010			FY 2004-05	FY 2009-	2010							
Fuel Type	thousand of gallons	thousand of gallons	% change		Vehicle Types	#	# %	change							
Gas	14,935	3,165	-79%		Gasoline	10,816	9,436	-13%							
E10	598	11382	1803%		Hybrid	78	129	65%							
E85	242	398	64%		Flex-fueled Vehicles	4,752	7,018	48%							
Diesel	8,526	1602	-81%		Comp Natural Gas	14	5	-64%							
B5	-	7			Diesel	4,498	5,066	13%							
B20	1,870	8157	336%		Propane	192	5 971	-22%							
B100 Total Biodianal an B20	-	2 8 167	2270/		Emergency/Ed (10%)	6,007	5,871	-2%	-						
CNG	1,070	0,107	-97%		Total	26 370	199 27 87 4	1451% 6%							
Propane	56	5	-91%		Iotai	20,570	27,074	070	1						
Petroleum Motor Oils		35			Of the Overall 17.5 % netr	roleum reductio	on:		T						
Svn & Rec Motor Oils		55	115%		3 95% displaced by reduced	mileage (conset	vation)								
Total Fuel		24 760	-5 8%		4.01% displaced through E1		valiony								
Total Petroleum	20,283	24,700	-15.4%		0.49% displaced through E8	s use									
T Fuel (adi, for growth)	26,877	24,760	-7.88%		4 7% displaced through biod	liesel use									
T Petro (adj for growth)	26,153	21,738	-17.26%		4.3% displaced through effic	ciency									
1.1 cu o (auj ioi giowai)	20,100	21,050	-17.2070		no /o aispiaeea ano agii eine				1						
Your organization result	to date														
Fayettev	ville State University		results to date	(2009-10)			% Rec	luctions Ca	used by PD	P Actions (b)	y FY 09-10 a	s reported)			
			Petroleum Displacement	PDP Actions											
% of Goal	State Organization	Petro Use	Achievements	(Petroleum Reduction)		Miles E	E10 E8	35	B5	B20	B100	CNG	Prop	Svn Moil	
	State Organization			× ,					20	520	2100	0110	110p	o yn mon	
			approaching Goal: added	decreased miles											
175%	Fayetteville SU	-35%	EV's, added FFV	(budget), better count		-42.9%	0.0%	0.0%	0.0%	6 0.0%	0.0%	0.0%	0.0%	1.2%	
			,	of NEV mileage	P				•	-	•		<u> </u>		
your organization plan to	date														
					г					-					
Fayetteville S	State University					report progress					plan next ye	ar and forwa	ırd		
Petroleum															
Displacement	2005 thru2007	2007-	2008	2008	8-2009		2009-202	10				2010-	2011		beyond 2011
Actual	-4%	-11	.%	-1	.3%		-35%					-25	5%		·
40.00/															
-42.9%	decreased mileage														
1.2%	synthetic or recycled oil									4	switched en	tirely to E10	, no gasoline		
										-					
as planned										-					
1.5%	Started a switch to B20 Diese	el (total of 1.000 gallons)				reported in '06-	'07 then stopped	1?		_					
0.5%	Synthetic Lubricants	(as per plan ? Se	e line 42			1					
2.0%	Conservation use smaller pic	kup trucks vs. full size 8cyls								1					
3.0%]	Increase B20 use to 3,000 ga	allons per year			did not happen	>			1					
										1					
														· · · ·	

space for Plan notes

Fayetteville State University Ray Williams/ Tony Milone 910-672-1827 awilliams@uncfsu.edu; jmiloneuncfsu.edu 910-672-1827 Conservation and Efficiency defining steps taken to reduce petroleum consumption In the process of reporting PDP results we have been able to directly attribute to "change in efficiency", a positive change may be called "conservation". The syour agency/ department/ organization initiated any steps, not previous	base 7/1876 your fleet efficiency appears to have decreased ute petroleum use changes due to: mileage; alternative fuel use; number of To better define what portion of PDP performance is due to "change in effi- isly reported , intended to improve fleet vehicle efficiency? Please place "X 2009-'10 2010-'11 NO X NO X	08-'09 09-'10 10-'11 eline efficiency factor 16.3443 16.3443 efficiency factor 12.4363 14.200 change indicated -23.91% -13.12% ed from baseline yet improved over previous year. f vehicles; use of synthetic or recycled motor oil. Indirectly we have been attributing any other change iciency or conservation" Please answer the following: X" as appropriate s or new fuel card reader systems would be mechanical. Process change could be an accounting to reduce mileage.
Image: Constraint of the second se	2009-'10 2010-'1 process X yes no yes 2a system X 2a system X 2a system X 2a system X 2a system X Image: constraint of the system 2a system X Image: constraint of the system 2b weight X Image: constraint of the system 2c set carpooling policy X Image: constraint of the system 2d reassigned vehicles to X Image: constraint of the system Image: constraint of the system 2d reduce fuel use X Image: constraint of the system Image: constraint of the system 2e routinely X Image: constraint of the system Image: constraint of the system 2f performance by vehicle X Image: constraint of the system Image: constraint of the system 3e began. There may be multiple marks. process Image: constraint of the system Image: constraint of the system before 2005 Image: constraint of the system I	1 $2009-'10$ $2010-'11$ behavior X X no yes no yes no 3a economical driving X X X a reminded drivers to save X X X 3b fuel X X X a set policy on idle X X X a evaluate driver behavior X X X a evaluate driver behavior X X X a carefully observe speed X X X 3e limit X X X a reward economical X X X $3g$ other behavior change X X X $3g$ other behavior change X X X
FY 04-05 FY 05-06 FY 06-07 X: 1a FY 07-08 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 ventile mechanical new in FY 2010-'11:	FY 04-05 FY 05-06 FY 06-07 FY 08-09 FY 09-10 FY 10-11	FY 04-05 FY 05-06 FY 06-07 FY 07-08 X; 3b,3c FY 08-09 FY 09-10 FY 10-11
new in FY 2010-'11: new in FY 2010-'11: From your Results Noted tab you are now aware of what portion of your P Your '09-'10 PDP report indicated -13.12% Was Your answers may total 0% if not applicable, otherwise the to FY 2009-10 mechanical	PDP performance change (positive or negative) was attributed to efficiency attributed to change in efficiency. Of the noted changes in each of these th otal will be 100%.	behavior v and conservation last year. hree categories what part will you attribute to current and future activities in each? FY 2009-10 behavior

	08-'09	09-'10	10-'11
baseline efficiency factor	16.3443	16.3443	
efficiency factor	12.4363	14.200	
change indicated	-23.91%	-13.12%	