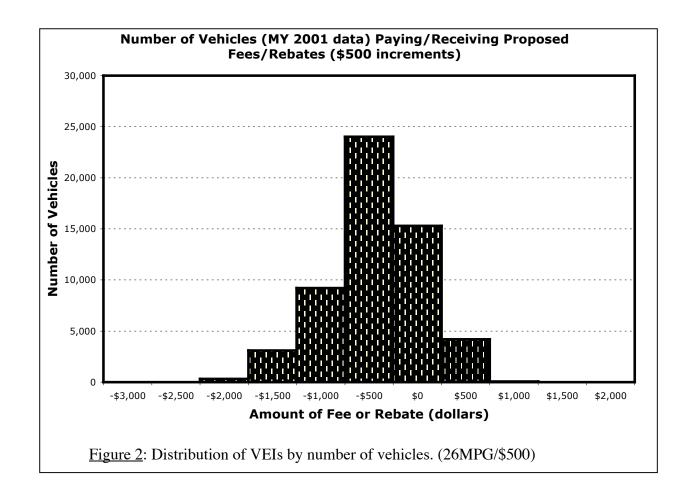


Figure 1: Feebate Amount for EPA Fuel Economies between 10 and 50 MPG. (26/\$500)



VEIA applied to 2001 purc	hases	What if purchases change	?
average purchased MPG	21.4	average purchased MPG	24.0
number of cars	56,000	number of cars	60,000
zero point(MPG) =	26	zero point(MPG) =	20
rate (\$/GP100M) =	\$500	rate (\$/GP100M) =	\$500
revenue per purchase =	\$427	revenue per purchase =	\$167
net revenue collected =	\$24,000,000	net revenue collected =	\$10,000,000
total fees collected =	\$27,000,000	total fees collected =	\$16,000,000
total rebates paid =	\$3,000,000	total rebates paid =	\$6,000,000
number of fees =	43,000	number of fees =	31,000
number of rebates =	12,000	number of rebates =	21,000
number of zero feebate =	1,000	number of zero feebate =	8,000

Figure 3: Revenue calculations for shifts in average purchased fuel economy.

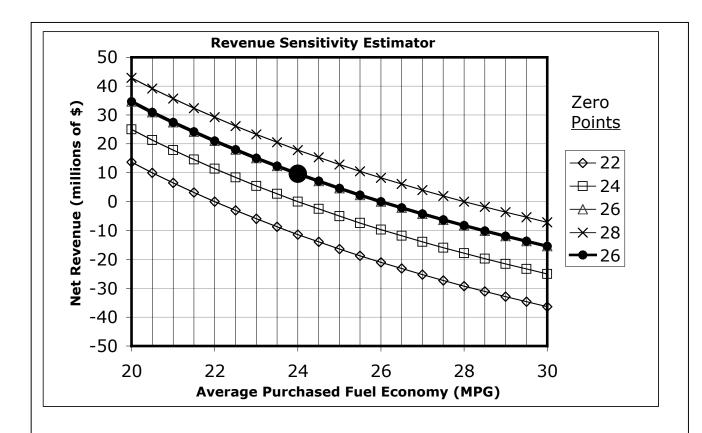


Figure 4: Revenue variation for different zero points and consumer behavior. (\$500 slopes)

Initial Fu	el Econor	ny (MPG)) ->	21.4	Initial Fu	el Econom	ny (MPG)	->	21.4
Annual E	fficiency	Increase	->		Annual Ef	ficiency I	ncrease	->	2.5
Annual T	otal VMT	Change	->	0.0%	Annual To	otal VMT (Change	->	0.0%
data	Rounde	d Values i	n MPG	relative	data	Rounded	l Values ii	n MPG	relative
year	new cars	new cars?	fleet	emissions	year	new cars	new cars?	fleet	emissions
2005	26	26.3	22	0.99	2005	22		21	1.00
2006	26	26.3	22	0.98	2006	23		22	1.00
2007	26	26.3	22	0.96	2007	23		22	0.99
2008	26	26.3	23	0.95	2008	24		22	0.98
2009	26	26.3	23	0.94	2009	24		22	0.98
2010	26	26.3	23	0.93	2010	25		22	0.97
2011	26	26.3	23	0.92	2011	26		22	0.96
2012	26	26.3	24	0.90	2012	26		23	0.94
2013	26	26.3	24	0.89	2013	27		23	0.93
2014	26	26.3	24	0.88	2014	28		23	0.92
2015	26	26.3	24	0.87	2015	28		24	0.90
2016	26	26.3	25	0.87	2016	29		24	0.89
2017	26	26.3	25	0.86	2017	30		25	0.87
2018	26	26.3	25	0.85	2018	31		25	0.85
2019	26	26.3	25	0.84	2019	31		26	0.84

Figure 5: Different fuel economy scenarios that meet GHG reduction goals.

26

0.83

2020

32

26

0.82

26

2020

26.3

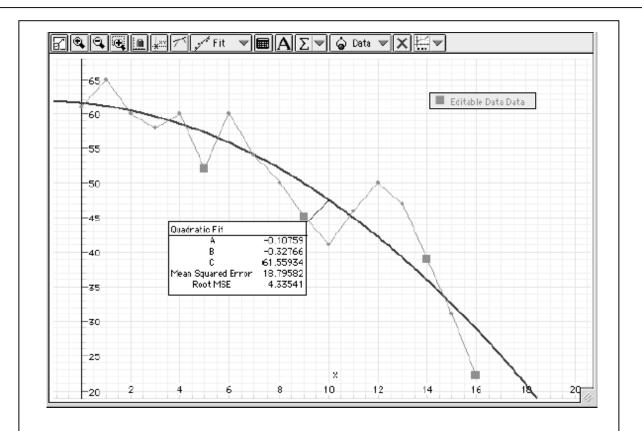
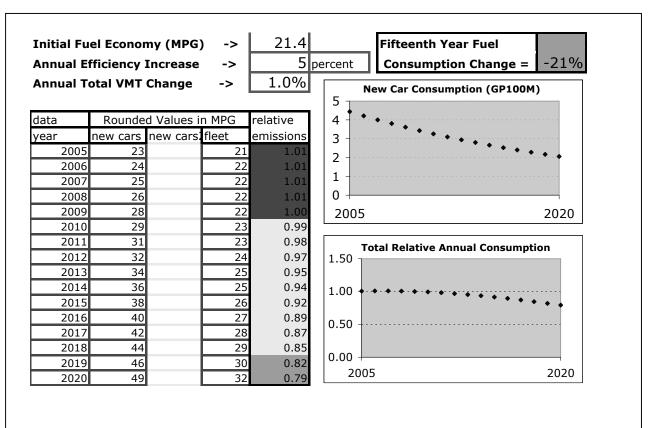


Figure 6: A constant age distribution was assumed for GHG reduction model.



<u>Figure 7</u>: Increases in vehicle miles traveled are also modeled.

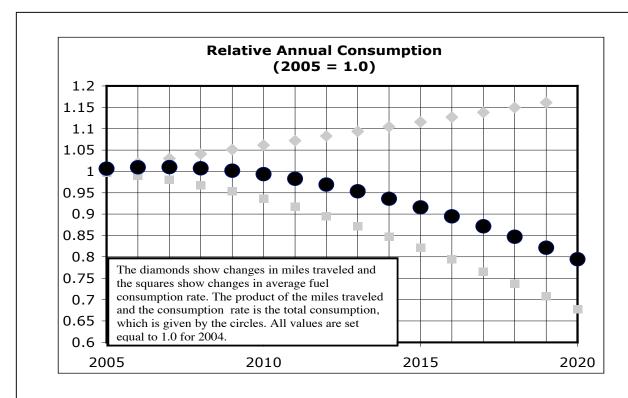


Figure 8: Consumption depends on fuel economy and vehicle miles traveled.

20 30 24 \$22,305 \$7,140 \$200 11.99	19 26 22 \$20,490 \$7,771 \$400	20 \$24,795 \$8,459 \$600
30 24 \$22,305 \$7,140 \$200	26 22 \$20,490 \$7,771 \$400	17 25 20 \$24,795 \$8,459 \$600
30 24 \$22,305 \$7,140 \$200	26 22 \$20,490 \$7,771 \$400	25 20 \$24,795 \$8,459 \$600
24 \$22,305 \$7,140 \$200	\$20,490 \$7,771 \$400	20 \$24,795 \$8,459 \$600
\$22,305 \$7,140 \$200	\$20,490 \$7,771 \$400	\$24,795 \$8,459 \$600
\$7,140 \$200	\$7,771 \$400	\$8,459 \$600
\$7,140 \$200	\$7,771 \$400	\$8,459 \$600
\$200	\$400	\$600
11 90		
TT.55	13.05	14.21
<u>ernate Fe</u>		
•		1000
: (MPG)	>	22
	LOOGPM)	L00GPM)> : (MPG)>

Figure 9: Feebate amounts for selected specific large automobiles.

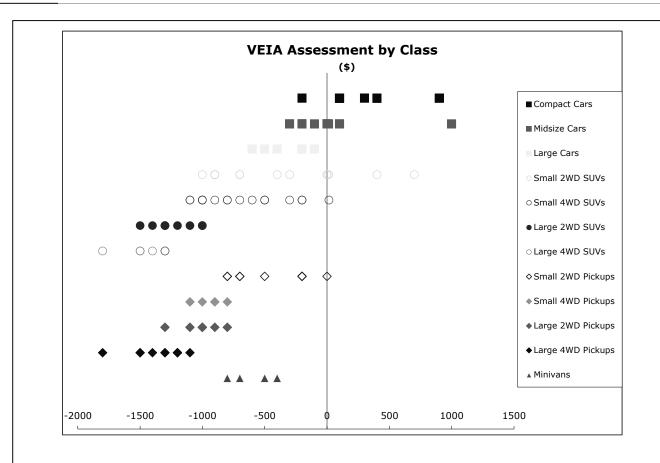


Figure 10: Distribution of VEIs by vehicle class. (26/\$500)