

# FHWA's Transportation Economic Data and Research

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FHWA Office of Highway Policy Information

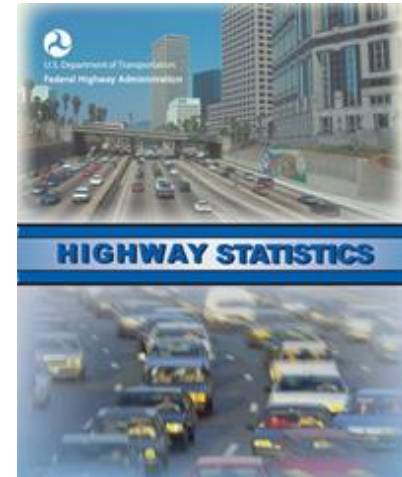


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<http://www.fhwa.dot.gov/policyinformation/statistics.cfm>

# 8.4.6 Tax Rates on Motor Fuel

## TAX RATES ON MOTOR FUEL - 2008<sup>1</sup>

TABLE MF-121T  
SHEET 1 OF 3

OCTOBER 2009

(CENTS PER GALLON)

STATE	GASOLINE		DIESEL		LIQUEFIED PETROLEUM GAS		GASOHOL 2/		
	RATE	EFFECTIVE DATE	RATE	EFFECTIVE DATE	RATE	EFFECTIVE DATE	RATE	EFFECTIVE DATE	EXEMPTION
Alabama *	18	10/01/95	19	10/01/95	-	-	18	06/01/92	10/01/95
Alaska *	8	07/01/61	8	07/01/61	-	-	8	07/01/61	-
Arizona *	18	07/01/00	26	07/01/00	-	-	18	07/01/00	-
Arkansas *	21.5	07/01/01	22.5	07/01/01	16.5	04/01/91	21.5	07/01/01	-
California *	18	01/01/94	18	01/01/94	6	01/01/66	18	01/01/94	-
Colorado *	22	01/01/91	20.5	01/01/92	20.5	01/01/92	22	01/01/91	-
Connecticut *	25	01/01/05	43.4	07/01/08	-	-	25	01/01/05	-
Delaware	23	01/01/95	22	01/01/95	22	01/01/95	23	01/01/95	-
Dist. of Col.	20	10/01/94	20	10/01/94	20	10/01/94	20	10/01/94	-
Florida *	15.6	01/01/08	15.6	01/01/08	14.5	01/01/05	15.6	01/01/08	-
Georgia	7.5	07/01/71	7.5	07/01/71	7.5	07/01/71	7.5	07/01/71	-
Hawaii *	17	07/01/07	17	07/01/07	5.2	07/01/04	16	07/01/91	-
Idaho *	25	04/01/96	25	04/01/96	18.1	01/01/96	22.5	07/01/96	2.5
Illinois *	19	01/01/90	21.5	01/01/90	19	01/01/90	19	01/01/90	-
Indiana *	18	04/01/03	16	04/01/93	-	-	18	04/01/03	-
Iowa *	21	07/01/07	22.5	01/01/89	20	01/01/89	19	01/01/89	2.0
Kansas *	24	07/01/03	26	07/01/03	23	07/01/03	24	07/01/03	-
Kentucky *	22.5	07/01/08	19.5	07/01/08	21.1	07/01/08	23	07/01/08	-
Louisiana *	20	01/01/90	20	01/01/90	16	07/01/93	20	01/01/90	-

# 8.4.7 State Motor-Fuel Taxes and Related Receipts

## STATE MOTOR-FUEL TAXES AND RELATED RECEIPTS - 2008 1/

OCTOBER 2009

(THOUSANDS OF DOLLARS)

TABLE MF-1

STATE	RECEIPTS FROM TAXATION OF MOTOR FUEL 3/						OTHER RELATED RECEIPTS					TOTAL	ADJUSTED TOTAL RECEIPTS
	GROSS TAX COLLECTIONS 2/	DEDUCTIONS BY DISTRIBUTORS FOR EXPENSES	GROSS RECEIPTS BY STATE	REFUNDS PAID	NET RECEIPTS BY STATE	DEDICATED REVENUE FROM NONHIGHWAY GASOLINE 4/	ADJUSTED NET VOLUME TAX RECEIPTS	DISTRIBUTOR AND DEALER LICENSES	INSPECTION FEES 5/	FINES AND PENALTIES	MISCELLANEOUS RECEIPTS		
Alabama	609,822	1,937	607,885	319	607,566	3,690	603,876	398	60,532	-	1,016	61,946	665,822
Alaska	31,040	-	31,040	410	30,630	1,074	29,556	-	-	-	-	-	29,556
Arizona	716,776	-	716,776	-	716,776	11,418	705,358	-	-	203	1,956	2,159	707,517
Arkansas	463,678	-	463,678	-	463,678	-	463,678	-	-	-	-	-	463,678
California	3,409,038	-	3,409,038	-	3,409,038	161,793	3,247,245	-	-	-	7,124	7,124	3,254,369
Colorado	560,327	2,243	558,084	3,240	554,844	-	554,844	-	-	-	92	32	554,936
Connecticut	487,970	-	487,970	2,847	485,123	-	485,123	276	-	-	192,971	193,247	678,370
Delaware	117,509	-	117,509	148	117,361	-	117,361	5	-	96	39	140	117,501
Dist. of Col.	23,199	-	23,199	-	23,199	-	23,199	-	-	-	-	-	23,199
Florida	2,200,581	2,488	2,198,093	23,006	2,175,087	-	2,175,087	-	10,387	-	29,978	40,365	2,215,452
Georgia	470,982	-	470,982	1,433	469,549	-	469,549	-	-	879	526,953	527,832	997,381
Hawaii	85,631	-	85,631	168	85,463	993	84,470	-	-	-	-	89	84,559
Idaho	226,890	3,220	223,670	5,138	218,532	-	218,532	-	-	89	-	-	218,532
Illinois	1,344,171	18,840	1,325,331	6,000	1,319,331	5,040	1,314,291	-	-	-	-	-	1,314,291
Indiana	865,882	9,826	856,056	47	856,009	162	855,847	-	-	-	-	-	855,847
Iowa	458,962	-	458,962	21,480	437,482	2,925	434,557	-	-	-	171	171	434,728
Kansas	428,565	-	428,565	1,681	426,884	4,421	422,463	10	1,295	-	82	1,387	423,850
Kentucky	619,253	8,758	610,495	1,993	608,502	-	608,502	-	-	-	-	-	608,502
Louisiana	625,410	7,676	617,734	27,424	590,310	-	590,310	-	5,649	1,902	101	7,652	597,962
Maine	247,101	-	247,101	998	246,103	5,695	240,408	-	-	-	-	-	240,408
Maryland	767,981	1,371	766,610	11,679	754,931	3,491	751,440	-	-	405	-	405	751,845
Massachusetts	673,818	5,833	667,985	1,164	666,821	1,714	665,107	-	-	-	-	-	665,107
Michigan	1,009,030	-	1,009,030	19,687	989,343	17,003	972,340	39	-	-	-	39	972,379
Minnesota	657,282	-	657,282	8,947	648,335	15,601	632,734	17	4,134	-	27,174	31,325	664,059

# 8.4.8 Disposition of State Motor-Fuel Tax Receipts

## DISPOSITION OF STATE MOTOR-FUEL TAX RECEIPTS - 2008

January 2012

(THOUSANDS OF DOLLARS)

TABLE MF-3

STATE	RECEIPTS AVAILABLE FOR DISTRIBUTION 1/	FOR COLLECTING MOTOR-FUEL TAXES AND FEES 2/	NET FUNDS DISTRIBUTED 3/	FOR STATE ADMINISTERED HIGHWAYS 4/				FOR LOCAL ROADS AND STREETS			FOR MASS TRANSIT PURPOSES	FOR GENERAL AND NONHIGHWAY PURPOSES					
				CAPITAL OUTLAY, MAINTENANCE AND ADMINISTRATION	HIGHWAY LAW ENFORCEMENT AND SAFETY	DEBT SERVICE	TOTAL	DIRECT EXPENDITURES BY STATE	TRANSFERS TO LOCAL GOVERNMENTS	TOTAL		LOCAL GENERAL AND NON-HIGHWAY PURPOSES 5/	STATE NON-HIGHWAY PURPOSES 6/	TO STATE GENERAL FUND			TOTAL
														STATE GENERAL PURPOSES	OFFSET BY GENERAL FUNDS SPENT FOR HIGHWAYS 7/	NET	
Alabama	611,560	18,343	532,617	34,334	30,749	15,856	201,533	219,000	164,847	383,847	263	-	6,362	-	-	-	6,362
Alaska 8/	30,753	601	30,158	1	12,205	17,482	23,688	-	453	453	17	-	-	(25,651)	25,651	-	-
Arizona	702,554	-	702,554	11,914	43	-	11,963	-	497,583	497,583	10,378	-	182,630	-	-	-	182,630
Arkansas	463,677	17,324	446,353	283,121	15,967	2,179	301,267	107,437	-	107,437	16,584	-	21,065	-	-	-	21,065
California	4,084,346	23,887	4,061,053	614,846	643,645	29,365	1,287,856	135,526	1,751,090	1,886,616	831,500	-	55,087	134,361	(134,361)	-	55,087
Colorado	554,936	3,920	551,016	296,071	55,416	68,766	420,253	20,964	87,144	108,108	22,655	-	-	-	-	-	-
Connecticut	683,103	4,733	678,370	31,381	553	285,943	317,883	-	23,472	23,472	335,511	-	1,504	-	-	-	1,504
Delaware	129,738	5,244	124,554	3,007	31,252	55,375	95,634	-	-	-	5,847	-	23,073	-	-	-	23,073
Dist. of Col. 8/	23,193	-	23,193	-	-	10	10	21,708	-	21,708	1,481	-	-	23,193	(23,193)	-	-
Florida	2,215,452	27,279	2,188,173	867,276	253,100	88,053	1,208,429	119,319	266,711	386,030	280,595	-	313,119	-	-	-	313,119
Georgia	934,530	7,017	927,573	259,530	136,424	309,174	705,128	86,472	-	86,472	5,329	-	17,908	443,184	(330,448)	112,736	130,644
Hawaii	87,885	-	87,885	44,646	2,732	21,371	68,749	-	3,656	3,656	1,473	-	8,001	-	-	-	8,001
Idaho	213,886	3,616	210,270	56,761	23,011	21,058	100,830	21,458	74,166	95,624	1,261	-	12,535	-	-	-	12,535
Illinois	1,422,935	40,461	1,382,474	741,469	32,588	138,190	372,247	82,789	325,666	408,455	1,550	-	222	1,202	(1,202)	-	222
Indiana 3/	855,848	-	855,848	446,059	78,651	76,351	601,061	131,608	1,215	192,823	50,876	-	11,088	496	(496)	-	11,088
Iowa	434,727	1,292	433,435	56,260	53,689	-	109,349	-	314,745	314,745	6,382	-	1,759	-	-	-	1,759
Kansas	423,635	-	423,635	543	36,443	122,934	159,386	109,752	121,641	231,393	-	-	32,256	350	(350)	-	32,256
Kentucky	607,420	-	607,420	318,262	31,790	74,442	424,494	125,704	-	125,704	32,793	-	24,429	-	-	-	24,429
Louisiana	602,193	-	602,193	534,694	41,757	20,262	596,713	1	1,417	1,418	4,068	-	-	-	-	-	-
Maine	244,402	690	243,712	177,630	30,989	12,529	221,148	-	22,562	22,562	2	-	-	-	-	-	-
Maryland	833,792	7,615	826,177	106,573	6,130	45,378	158,081	18,925	215,407	234,332	306,798	-	126,966	-	-	-	126,966
Massachusetts	670,340	5,833	665,107	28,463	-	-	28,463	208,885	127,539	336,424	298,190	-	2,030	-	-	-	2,030
Michigan	973,549	8,110	965,439	146,183	37,379	92,868	276,430	532,877	17,286	550,163	130,871	-	7,975	-	-	-	7,975

# 9.3. Revenue - National Tables

9.3.2. Funding for highways and disposition of highway-user revenues

9.3.3. Total receipts for highways, by governmental unit

9.3.4. Status of the Federal Highway Trust Fund

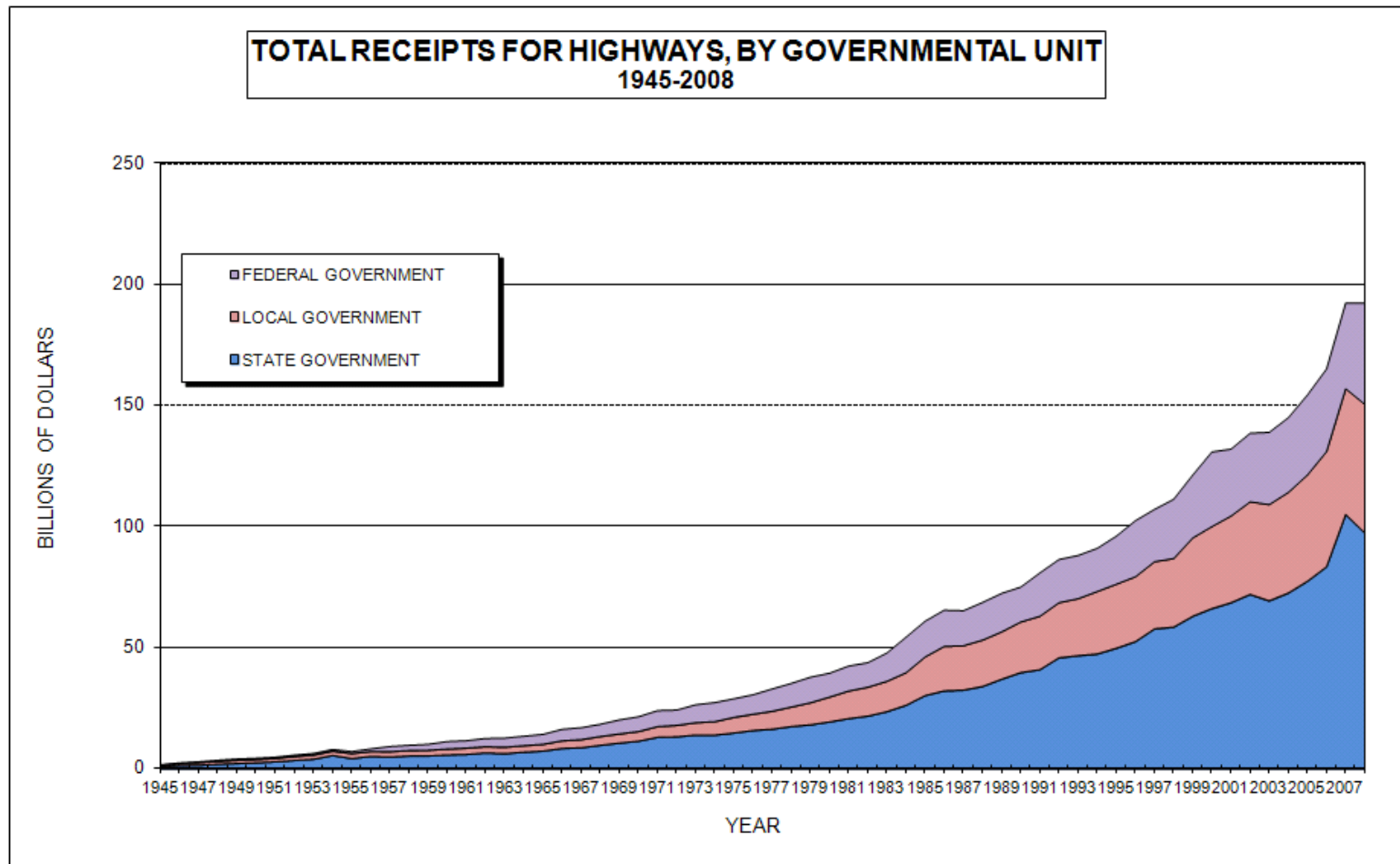


# 9.3.2 Funding For Highways and Disposition of Highway-User Revenues, All Units of Government

## FUNDING FOR HIGHWAYS AND DISPOSITION OF HIGHWAY-USER REVENUES, ALL UNITS OF GOVERNMENT, 2008 1/

FEBRUARY 2010								(MILLIONS OF DOLLARS)								TABLE HF-10	
ITEM	FEDERAL GOVERNMENT			STATE AGENCIES AND D.C.	LOCAL GOVERNMENTS 3/	TOTAL	TOTAL AS PERCENT OF TOTAL DISBURSEMENTS										
	HIGHWAY TRUST FUND ACCOUNT	OTHER FUNDS AND ACCOUNTS 2/	TOTAL FEDERAL														
	<b>DISPOSITION OF HIGHWAY-USER REVENUE BY COLLECTING AGENCIES</b>																
Receipts Available for Distribution	31,324	5,237	36,561	80,120	5,408	122,089	67.06%										
Less: Amount for Nonhighway Purposes 4/	-	(195)	(195)	(8,019)	(81)	(8,295)	-4.56%										
Less: Amount for Mass Transportation	(407)	(5,021)	(5,428)	(8,846)	(988)	(15,262)	-8.38%										
Less: Amount for Collection Expenses 5/	-	-	-	(4,277)		(4,277)	-2.35%										
Less: Amount for Territories 6/	(82)	(21)	(103)			(103)	-0.06%										
Net Used for Highway Purposes	30,835	-	30,835	58,978	4,339	94,152	51.72%										
<b>REVENUES USED FOR HIGHWAYS - BY COLLECTING AGENCIES</b>																	
Highway User Revenues:																	
Motor-Fuel and Vehicle Taxes	30,835	-	30,835	51,439	2,578	84,852	46.61%										
Tolls	-	-	-	7,539	1,761	9,300	5.11%										
Subtotal	30,835	-	30,835	58,978	4,339	94,152	51.72%										
Other Taxes and Fees:																	
Property Taxes and Assessments	-	-	-	-	8,322	8,322	4.57%										
General Fund Appropriations 3/	8,017	2,561	10,578	6,819	22,998	40,395	22.19%										
Other Taxes and Fees	-	471	471	7,009	4,966	12,446	6.84%										
Subtotal	8,017	3,032	11,049	13,828	36,286	61,163	33.60%										

# 9.3.3 Total Receipts for Highways by Governmental Unit



# 9.3.4 Status of The Federal Highway Trust Fund

## STATUS OF THE FEDERAL HIGHWAY TRUST FUND 1/ OCTOBER 1, 2008 - SEPTEMBER 30, 2009

OCTOBER 2009

TABLE FE-10

ITEM	HIGHWAY ACCOUNT	MASS TRANSIT ACCOUNT 2/	TOTAL
I. Opening balance:			
A. Investments - U.S. Treasury special certificates of Indebtedness	6,924,524,000.00	5,886,604,000.00	12,811,128,000.00
B. Uninvested - held by Bureau of Public Debt	1,977,212,520.05	290,901,961.98	2,268,114,482.03
C. Uninvested - held by program agencies	1,130,493,468.65	609,116,099.63	1,739,609,568.28
D. Total balance	10,032,229,988.70	6,786,622,061.61	16,818,852,050.31
II. Receipts:			
A. Gross excise taxes (transferred General Fund receipts)			
✓ 1. Gasoline	20,778,057,000.00	3,848,791,000.00	24,626,848,000.00
✓ 2. Diesel and special motor fuels	8,226,454,000.00	1,096,664,000.00	9,323,118,000.00
✓ 3. Tires	314,276,000.00	0.00	314,276,000.00
✓ 4. Trucks and trailers	1,890,021,000.00	0.00	1,890,021,000.00
✓ 5. Federal use tax	962,528,000.00	0.00	962,528,000.00
✓ 6. Total excise taxes	32,171,336,000.00	4,945,455,000.00	37,116,791,000.00
B. Deduct - reimbursement to General Fund receipts (refunds and tax credits)			
✓ 1. Diesel	654,505,000.00	0.00	654,505,000.00
✓ 2. Gasoline	391,262,000.00	0.00	391,262,000.00

# 9.4. Revenue - State Tables

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# 10 Debt Obligations for Highways

## **10.3. National tables**

10.3.1. Long-term highway obligations for all units of government

## **10.4. State tables**

10.4.1. State Obligations for Highway (total), issued or assumed during year

10.4.2. Change in indebtedness, state highways

10.4.3. Change in indebtedness, local highways

10.4.4. Change in indebtedness, toll roads and crossings

10.4.5. Funding for debt service, state highways

10.4.6. Funding for debt service, local highways

10.4.7. Funding for debt service, toll roads and crossings

## **10.5. Local tables**

10.5.1. Change in indebtedness, local highways

10.5.2. Change in indebtedness, local toll facilities

# 11. Apportionments, Obligations, and Expenditures

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11.3.2. Receipts and expenditures for highways by Federal agencies-summary FA-5

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# 11. Apportionments, Obligations, and Expenditures – State Tables

## 11.4.1. Apportionments and allocations

### 11.4.1.3. Federal-aid highway fund allocations

## 11.4.2. Obligations

### 11.4.2.1. Obligation of Federal-aid highway funds

### 11.4.2.2. Obligation of Federal-aid highway funds by functional system

### 11.4.2.3. Uses of Surface Transportation Program funds for projects not on the National Highway System (by improvement category)

### 11.4.2.4. Uses of Surface Transportation Program funds for projects not on the National Highway System (by functional system)

## 11.4.3. Expenditures

### 11.4.3.1. Total disbursements for highways, all units of government

### 11.4.3.2. Expenditure of Federal funds administered by the Federal Highway Administration

### 11.4.3.3. Disbursements by States for highways

### 11.4.3.4. Disbursements by States for State-administered highways

### 11.4.3.5. Disbursements by States for State-administered, classified by function

### 11.4.3.6. State capital outlay and maintenance, classified by functional system and area

### 11.4.3.7. State capital outlay and maintenance, classified by improvement type

### 11.4.3.8. State capital outlay and maintenance, classified by Federal-aid system

### 11.4.3.9. Disbursements of State toll road and crossing facilities

### 11.4.3.10. Disbursements of local toll facilities



# 11. Apportionments, Obligations, and Expenditures-Local

11.5.1. Disbursements by local governments for highways

11.5.2. Funding for State grants-in-aid for local roads and streets

11.5.3. State expenditures and grants-in-aid for local roads and streets

# Major Research Activities

## **Multimodal Transportation Analysis System**

1: VMT Projection  $VMT = f(\text{explanatory variables})$

2: Passenger Long Distance Travel

## **Mode Choice Elasticity**

1: Why People Drive More or Less

2: How cost affect long distance travel mode choice

# VMT

## (Conducted by Volpe for FHWA)

- Develop an integrated multi-level VMT forecasting model
  - National Aggregate VMT
  - Travel by Functional Class
  - VMT by Individual State
  - Fleet Model (VMT by model year and age)
- All levels disaggregate VMT by vehicle type (consistent with Highway Statistics data)
  - Light-Duty Vehicles (automobiles and light-duty trucks)
  - Single-Unit Trucks (Classes 3, 5-7 )
  - Combination Trucks (Classes 8-13)
  - Buses (Class 4)

# VMT Forecasts of Explanatory Variables

- **IHS Global Insight**
  - Economic variables (National 10/2010 forecast, State 4/2010 forecast)
  - Demographic trends (from U.S. Census Bureau)
- **Energy Information Administration**
  - Truck fleet fuel economy
  - Alternative fuel shares
  - Pre-tax fuel prices
- **Volpe (where other sources unavailable)**
  - LDV fleet fuel economy
  - Highway miles
  - Fuel tax rates

# Passenger Long Distance Travel

(Conducted by R D Mingo, Wilbur Smith Associates,  
RSG, ... for FHWA)

- **Develop a Multimodal Passenger Long Distance Origin Destination Matrix**

Air

Rail

Highway – POV and Bus

- Geography  
The entire US with regional geography

# Passenger Long Distance Explanatory Variables

Economic variables – Global Insight

Demographic trends - U.S. Census Bureau

# Mode Choice Elasticity

- 1: Why People Drive More or Less - ORNL
- 2: How cost affect long distance travel mode choice - Battelle

# Initiative We Would Like to Pursue

Assessing Highway Transportation Investment  
Impact on Economic and Social Development



Thanks!