

# Performance Measure Summary - Pensacola FL-AL

There are several inventory and performance measures listed in the pages of this Urban Area Report for the years from 1982 to 2017. There is no single performance measure that experts agree "says it all". A few key points should be recognized by users of the Urban Mobility Scorecard data.

**Use the trends** - The multi-year performance measures are better indicators, in most cases, than any single year. Examining a few measures over many years reduces the chance that data variations or the estimating procedures may have caused a "spike" in any single year. (5 years is 5 times better than 1 year.)

**Use several measures** - Each performance measure illustrates a different element of congestion. (The view is more interesting from atop several measures.)

**Compare to similar regions** - Congestion analyses that compare areas with similar characteristics (for example, population, growth rate, road and public transportation system design) are usually more insightful than comparisons of different regions. (Los Angeles is not Peoria.)

**Compare ranking changes and performance measure values** - In some performance measures, a small change in the value may cause a significant change in rank from one year to the next. This is the case when there are several regions with nearly the same value. (15 hours is only 1 hour more than 14 hours.)

**Consider the scope of improvement options** - Any improvement project in a corridor within most of the regions will only have a modest effect on the regional congestion level. (To have an effect on areawide congestion, there must be significant change in the system or service.)

## Performance Measures and Definition of Terms

**Travel Time Index** - A measure of congestion that focuses on each trip and each mile of travel. It is calculated as the ratio of travel time in the peak period to travel time in free-flow. A value of 1.30 indicates that a 20-minute free-flow trip takes 26 minutes in the peak.

**Planning Time Index** - A travel time reliability measure that represents the total travel time that should be planned for a trip. Computed with the 95th percentile travel time it represents the amount of time that should be planned for a commute trip to be late for only 1 day a month. If it is computed with the 80th percentile travel time it represents the amount of time that should be planned for a trip to be late for only 1 day a week. A PTI of 2.00 means that for a 20-minute trip in light traffic, 40 minutes should be planned.

**Peak Commuters** - Number of travelers who begin a trip during the morning or evening peak travel periods (6 to 10 a.m. and 3 to 7 p.m.). "Commuters" are private vehicle users unless specifically noted.

**Annual Delay per Commuter** - A yearly sum of all the per-trip delays for those persons who travel in the peak period (6 to 10 a.m. and 3 to 7 p.m.). This measure illustrates the effect of traffic slowdowns as well as the length of each trip.

**Total Delay** - The overall size of the congestion problem. Measured by the total travel time above that needed to complete a trip at free-flow speeds. The ranking of total delay usually follows the population ranking (larger regions usually have more delay).

**Free-Flow Speeds** - These values are derived from time periods with lighter traffic volumes in the INRIX speed database. They are used as the national comparison thresholds. Other speed thresholds may be appropriate for urban project evaluations or sub-region studies.

**Excess Fuel Consumed** - Increased fuel consumption due to travel in congested conditions rather than free-flow conditions.

**Congestion Cost** - Value of travel delay for 2017 (estimated at \$18.29 per hour of person travel and \$59.94 per hour of truck time) and excess fuel consumption estimated using state average cost per gallon.

**Urban Area** - The developed area (population density more than 1,000 persons per square mile) within a metropolitan region. The urban area boundaries change frequently (every year for most growing areas), so increases include both new growth and development that was previously in areas designated as rural.

**Number of Rush Hours** - Time when the road system might have congestion.

# Mobility Data for Pensacola FL-AL

Inventory Measures	2017	2016	2015	2014	2013	2012
<b>Urban Area Information</b>						
Population (1000s)	375	375	375	375	370	365
Rank	89	89	88	86	87	87
Commuters (1000s)	182	182	182	182	183	181
<b>Daily Vehicle-Miles of Travel (1000s)</b>						
Freeway	1,776	1,685	1,597	1,584	1,541	1,370
Arterial Streets	5,237	5,186	5,010	4,911	4,912	4,945
<b>Cost Components</b>						
Value of Time (\$/hour)	18.12	17.91	17.69	17.67	17.39	17.14
Commercial Cost (\$/hour)	52.14	50.20	46.87	44.82	41.23	39.66
Gasoline (\$/gallon)	2.28	2.12	2.23	3.27	3.47	3.50
Diesel (\$/gallon)	2.48	2.31	2.55	3.60	3.90	3.87
System Performance	2017	2016	2015	2014	2013	2012
<b>Congested Travel (% of peak VMT)</b>	8.9	--	--	--	--	--
<b>Congested System (% of lane-miles)</b>	6.8	--	--	--	--	--
<b>Congested Time (number of "Rush Hours")</b>	0.6	--	--	--	--	--
<b>Annual Excess Fuel Consumed</b>						
Total Fuel (1000 gallons)	3,722	3,650	3,581	3,525	3,515	3,497
Rank	87	88	88	89	87	86
Fuel per Peak Auto Commuter (gallons)	16	16	16	16	16	16
Rank	77	76	73	70	71	69
<b>Annual Delay</b>						
Total Delay (1000s of person-hours)	9,520	9,199	8,870	8,579	8,478	8,284
Rank	88	88	87	87	87	86
Delay per Auto Commuter (pers-hrs)	43	42	41	41	40	40
Rank	63	62	63	59	60	55
<b>Travel Time Index</b>						
Rank	1.17	1.17	1.17	1.17	1.17	1.17
Rank	49	49	49	52	51	50
<b>Commuter Stress Index</b>						
Rank	1.18	--	--	--	--	--
Rank	56	--	--	--	--	--
<b>Freeway Planning Time Index (95th Pctile)</b>						
Rank	1.12	--	--	--	--	--
Rank	96	--	--	--	--	--
<b>Congestion Cost</b>						
Total Cost (\$ millions)	192	183	174	171	167	161
Rank	88	88	87	87	87	86
Cost per Auto Commuter (\$)	662	642	615	593	591	583
Rank	85	85	86	86	83	82
<b>Truck Congestion</b>						
Annual Person-Hours of Delay (000)	400	386	373	360	356	348
Rank	88	88	87	87	87	86
Annual Gallons of Wasted Fuel (000)	789	774	759	747	745	741
Rank	87	88	88	89	87	86
Annual Congestion Cost (\$ million)	20	19	17	17	16	15
Rank	87	86	87	87	86	86

\* Note: Zeroes in the table reflect values less than 0.5.

# Mobility Data for Pensacola FL-AL

Inventory Measures	2011	2010	2009	2008	2007	2006
<b>Urban Area Information</b>						
Population (1000s)	360	360	355	355	355	350
Rank	87	87	87	87	87	87
Commuters (1000s)	178	177	174	174	173	169
<b>Daily Vehicle-Miles of Travel (1000s)</b>						
Freeway	1,419	1,407	1,400	1,310	1,520	1,460
Arterial Streets	5,058	5,016	5,030	5,055	5,865	5,855
<b>Cost Components</b>						
Value of Time (\$/hour)	16.79	16.28	16.01	16.07	15.47	15.06
Commercial Cost (\$/hour)	44.62	42.50	41.83	40.77	39.30	37.88
Gasoline (\$/gallon)	3.24	2.74	2.33	3.47	2.98	2.66
Diesel (\$/gallon)	3.65	2.96	2.59	4.15	3.36	2.85
System Performance	2011	2010	2009	2008	2007	2006
<b>Congested Travel (% of peak VMT)</b>	--	--	--	--	--	--
<b>Congested System (% of lane-miles)</b>	--	--	--	--	--	--
<b>Congested Time (number of "Rush Hours")</b>	--	--	--	--	--	--
<b>Annual Excess Fuel Consumed</b>						
Total Fuel (1000 gallons)	3,479	3,432	3,347	3,537	3,624	3,543
Rank	85	86	86	86	85	84
Fuel per Peak Auto Commuter (gallons)	16	17	16	18	18	19
Rank	67	61	54	49	49	36
<b>Annual Delay</b>						
Total Delay (1000s of person-hours)	8,091	7,908	7,570	7,618	7,806	7,630
Rank	85	85	84	85	83	83
Delay per Auto Commuter (pers-hrs)	39	40	39	37	38	38
Rank	54	48	47	54	48	45
<b>Travel Time Index</b>						
Rank	1.17	1.17	1.18	1.18	1.19	1.18
Rank	45	43	41	44	40	43
<b>Commuter Stress Index</b>						
Rank	--	--	--	--	--	--
Rank	--	--	--	--	--	--
<b>Freeway Planning Time Index (95th Pctile)</b>						
Rank	--	--	--	--	--	--
Rank	--	--	--	--	--	--
<b>Congestion Cost</b>						
Total Cost (\$ millions)	155	145	136	142	138	130
Rank	85	85	85	84	83	83
Cost per Auto Commuter (\$)	588	594	579	578	613	616
Rank	81	81	79	77	76	74
<b>Truck Congestion</b>						
Annual Person-Hours of Delay (000)	340	332	318	320	328	320
Rank	85	85	84	85	83	83
Annual Gallons of Wasted Fuel (000)	737	727	710	750	768	751
Rank	85	86	86	86	85	84
Annual Congestion Cost (\$ million)	16	15	14	15	14	13
Rank	85	84	83	83	82	82

\* Note: Zeroes in the table reflect values less than 0.5.

# Mobility Data for Pensacola FL-AL

Inventory Measures	2005	2004	2003	2002	2001	2000
<b>Urban Area Information</b>						
Population (1000s)	345	340	330	325	315	305
Rank	88	87	88	87	90	89
Commuters (1000s)	166	162	157	152	145	138
<b>Daily Vehicle-Miles of Travel (1000s)</b>						
Freeway	1,425	1,410	1,350	1,270	1,200	1,150
Arterial Streets	5,800	5,600	5,230	4,920	4,600	4,455
<b>Cost Components</b>						
Value of Time (\$/hour)	14.58	14.10	13.73	13.43	13.22	12.85
Commercial Cost (\$/hour)	36.51	35.19	33.92	32.69	31.51	30.38
Gasoline (\$/gallon)	2.34	1.99	1.53	1.41	1.51	1.54
Diesel (\$/gallon)	2.53	2.01	1.61	1.41	1.58	1.55
System Performance	2005	2004	2003	2002	2001	2000
<b>Congested Travel (% of peak VMT)</b>	--	--	--	--	--	--
<b>Congested System (% of lane-miles)</b>	--	--	--	--	--	--
<b>Congested Time (number of "Rush Hours")</b>	--	--	--	--	--	--
<b>Annual Excess Fuel Consumed</b>						
Total Fuel (1000 gallons)	3,339	3,225	2,997	2,821	2,542	2,471
Rank	84	84	84	84	85	83
Fuel per Peak Auto Commuter (gallons)	18	17	16	16	13	13
Rank	43	46	49	42	63	56
<b>Annual Delay</b>						
Total Delay (1000s of person-hours)	7,191	6,945	6,455	6,075	5,474	5,323
Rank	83	84	84	84	84	83
Delay per Auto Commuter (pers-hrs)	37	37	37	36	34	34
Rank	48	47	45	45	51	49
<b>Travel Time Index</b>						
Rank	1.18	1.17	1.17	1.16	1.15	1.15
Rank	41	47	45	54	58	56
<b>Commuter Stress Index</b>						
Rank	--	--	--	--	--	--
Rank	--	--	--	--	--	--
<b>Freeway Planning Time Index (95th Pctile)</b>						
Rank	--	--	--	--	--	--
Rank	--	--	--	--	--	--
<b>Congestion Cost</b>						
Total Cost (\$ millions)	118	109	98	89	80	75
Rank	83	84	84	84	84	82
Cost per Auto Commuter (\$)	603	602	570	553	505	505
Rank	77	73	79	78	79	79
<b>Truck Congestion</b>						
Annual Person-Hours of Delay (000)	302	292	271	255	230	224
Rank	83	84	84	84	84	83
Annual Gallons of Wasted Fuel (000)	708	684	635	598	539	524
Rank	84	84	84	84	85	83
Annual Congestion Cost (\$ million)	11	10	9	8	7	7
Rank	83	84	84	84	84	81

\* Note: Zeroes in the table reflect values less than 0.5.

# Mobility Data for Pensacola FL-AL

Inventory Measures	1999	1998	1997	1996	1995	1994
<b>Urban Area Information</b>						
Population (1000s)	300	295	290	285	280	275
Rank	89	88	87	87	87	87
Commuters (1000s)	134	130	126	122	118	114
<b>Daily Vehicle-Miles of Travel (1000s)</b>						
Freeway	1,120	1,080	1,030	975	930	890
Arterial Streets	4,325	4,215	4,195	3,945	3,710	3,425
<b>Cost Components</b>						
Value of Time (\$/hour)	12.43	12.17	11.98	11.71	11.37	11.06
Commercial Cost (\$/hour)	29.28	28.89	28.50	28.12	27.75	27.38
Gasoline (\$/gallon)	1.14	1.07	1.17	1.30	1.20	1.08
Diesel (\$/gallon)	1.19	1.20	1.27	1.40	1.30	1.17
System Performance	1999	1998	1997	1996	1995	1994
<b>Congested Travel (% of peak VMT)</b>	--	--	--	--	--	--
<b>Congested System (% of lane-miles)</b>	--	--	--	--	--	--
<b>Congested Time (number of "Rush Hours")</b>	--	--	--	--	--	--
<b>Annual Excess Fuel Consumed</b>						
Total Fuel (1000 gallons)	2,359	2,213	2,090	1,830	1,620	1,456
Rank	83	81	81	82	85	86
Fuel per Peak Auto Commuter (gallons)	13	12	11	10	9	8
Rank	51	53	54	57	59	65
<b>Annual Delay</b>						
Total Delay (1000s of person-hours)	5,081	4,765	4,502	3,941	3,489	3,136
Rank	83	83	79	81	83	85
Delay per Auto Commuter (pers-hrs)	33	32	31	28	25	24
Rank	51	52	49	59	65	65
<b>Travel Time Index</b>						
Rank	52	55	47	50	68	63
<b>Commuter Stress Index</b>						
Rank	--	--	--	--	--	--
<b>Freeway Planning Time Index (95th Pctile)</b>						
Rank	--	--	--	--	--	--
<b>Congestion Cost</b>						
Total Cost (\$ millions)	69	63	59	51	44	38
Rank	82	82	79	81	82	84
Cost per Auto Commuter (\$)	498	476	459	407	373	344
Rank	79	77	75	78	79	82
<b>Truck Congestion</b>						
Annual Person-Hours of Delay (000)	213	200	189	166	147	132
Rank	83	83	79	81	83	85
Annual Gallons of Wasted Fuel (000)	500	469	443	388	343	309
Rank	83	81	81	82	85	86
Annual Congestion Cost (\$ million)	6	6	5	5	4	4
Rank	81	77	79	79	79	79

\* Note: Zeroes in the table reflect values less than 0.5.

# Mobility Data for Pensacola FL-AL

Inventory Measures	1993	1992	1991	1990	1989	1988
<b>Urban Area Information</b>						
Population (1000s)	270	270	265	265	260	255
Rank	87	86	86	86	86	86
Commuters (1000s)	110	108	105	103	101	98
<b>Daily Vehicle-Miles of Travel (1000s)</b>						
Freeway	860	820	770	760	720	700
Arterial Streets	3,305	3,205	2,960	2,955	2,880	2,795
<b>Cost Components</b>						
Value of Time (\$/hour)	10.78	10.47	10.17	9.75	9.25	8.83
Commercial Cost (\$/hour)	27.02	26.66	26.30	25.95	25.60	25.26
Gasoline (\$/gallon)	1.13	1.12	1.10	1.05	1.08	1.00
Diesel (\$/gallon)	1.22	1.20	1.24	1.11	1.07	0.99
System Performance	1993	1992	1991	1990	1989	1988
<b>Congested Travel (% of peak VMT)</b>	--	--	--	--	--	--
<b>Congested System (% of lane-miles)</b>	--	--	--	--	--	--
<b>Congested Time (number of "Rush Hours")</b>	--	--	--	--	--	--
<b>Annual Excess Fuel Consumed</b>						
Total Fuel (1000 gallons)	1,326	1,194	1,048	983	880	836
Rank	86	86	88	87	87	86
Fuel per Peak Auto Commuter (gallons)	8	7	5	6	4	4
Rank	58	59	79	60	76	71
<b>Annual Delay</b>						
Total Delay (1000s of person-hours)	2,857	2,571	2,258	2,118	1,895	1,801
Rank	84	84	86	84	86	84
Delay per Auto Commuter (pers-hrs)	22	20	18	17	16	15
Rank	68	67	72	70	68	67
<b>Travel Time Index</b>						
Rank	1.10	1.09	1.08	1.08	1.07	1.07
Rank	67	70	71	63	66	60
<b>Commuter Stress Index</b>						
Rank	--	--	--	--	--	--
Rank	--	--	--	--	--	--
<b>Freeway Planning Time Index (95th Pctile)</b>						
Rank	--	--	--	--	--	--
Rank	--	--	--	--	--	--
<b>Congestion Cost</b>						
Total Cost (\$ millions)	34	30	25	23	20	18
Rank	84	84	86	84	85	83
Cost per Auto Commuter (\$)	325	302	274	264	249	253
Rank	81	84	84	85	84	80
<b>Truck Congestion</b>						
Annual Person-Hours of Delay (000)	120	108	95	89	80	76
Rank	84	84	86	84	85	83
Annual Gallons of Wasted Fuel (000)	281	253	222	208	187	177
Rank	86	86	88	87	87	86
Annual Congestion Cost (\$ million)	3	3	2	2	2	2
Rank	82	80	85	83	82	80

\* Note: Zeroes in the table reflect values less than 0.5.

# Mobility Data for Pensacola FL-AL

Inventory Measures	1987	1986	1985	1984	1983	1982
<b>Urban Area Information</b>						
Population (1000s)	250	245	240	235	230	225
Rank	86	85	85	85	85	85
Commuters (1000s)	95	92	90	87	85	82
<b>Daily Vehicle-Miles of Travel (1000s)</b>						
Freeway	650	620	600	550	530	500
Arterial Streets	2,785	2,705	2,325	2,220	2,100	2,055
<b>Cost Components</b>						
Value of Time (\$/hour)	8.48	8.18	8.03	7.75	7.43	7.20
Commercial Cost (\$/hour)	24.93	24.60	24.27	23.94	23.63	23.31
Gasoline (\$/gallon)	1.00	0.98	1.28	1.29	1.32	1.38
Diesel (\$/gallon)	0.99	0.97	1.27	1.28	1.31	1.37
System Performance	1987	1986	1985	1984	1983	1982
<b>Congested Travel (% of peak VMT)</b>	--	--	--	--	--	--
<b>Congested System (% of lane-miles)</b>	--	--	--	--	--	--
<b>Congested Time (number of "Rush Hours")</b>	--	--	--	--	--	--
<b>Annual Excess Fuel Consumed</b>						
Total Fuel (1000 gallons)	779	721	659	571	495	426
Rank	85	84	84	84	85	87
Fuel per Peak Auto Commuter (gallons)	4	4	3	3	2	1
Rank	61	54	66	61	69	82
<b>Annual Delay</b>						
Total Delay (1000s of person-hours)	1,679	1,553	1,419	1,230	1,066	918
Rank	83	83	83	83	85	87
Delay per Auto Commuter (pers-hrs)	15	14	13	12	10	9
Rank	60	57	56	56	64	65
<b>Travel Time Index</b>						
Rank	1.07	1.06	1.06	1.05	1.05	1.04
Rank	55	57	54	57	55	61
<b>Commuter Stress Index</b>						
Rank	--	--	--	--	--	--
Rank	--	--	--	--	--	--
<b>Freeway Planning Time Index (95th Pctile)</b>						
Rank	--	--	--	--	--	--
Rank	--	--	--	--	--	--
<b>Congestion Cost</b>						
Total Cost (\$ millions)	16	14	13	11	9	8
Rank	83	83	83	83	84	85
Cost per Auto Commuter (\$)	253	234	215	195	185	158
Rank	79	78	77	79	79	83
<b>Truck Congestion</b>						
Annual Person-Hours of Delay (000)	71	65	60	52	45	39
Rank	83	83	83	83	84	87
Annual Gallons of Wasted Fuel (000)	165	153	140	121	105	90
Rank	85	84	84	84	85	87
Annual Congestion Cost (\$ million)	2	2	1	1	1	1
Rank	79	75	83	81	78	75

\* Note: Zeroes in the table reflect values less than 0.5.