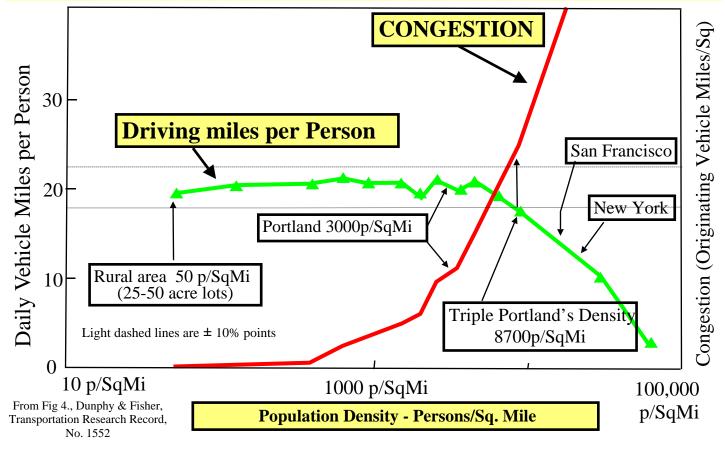
Density Increases Congestion

Driving DOES NOT Decrease Until You Triple Portland's Density



The green line is vehicle miles per person. --- It is almost unchanged by increased density until you get to densities triple that of Portland. To cut driving in half you have to surpass New York City's average density.

The red line is congestion -- It increases dramatically with density.

Since driving per person stays about the same, congestion goes up with density:

more people = more cars = more congestion.

	VEHICLE		PERSON DAILY TRAVEL											SUM OF		
177			PERSONAL VEH		BUS		RAIL		TAXI		WALKIBIKE		OTHER		PERSON	
DENSIT	TRIPS	MILES	TRIPS	MILES	TRIPS	MILES	TRIPS	MILES	TRIPS	MILES	TRIPS	MILES	TRIPS	MILES	TRIPS	MILES
50	2.42	21.13	3.35	30.09	0.02	0.17	0	0.02	0	0.02	0.24	0.15	0.16	1.13	3.77	31.5
125	2.53	20.73	3.5	28.97	0.02	0.12	0	0.01	0.01	0.03	0.24	0.16	0.13	0.66	3.9	29.9
375	2.57	20.4	3.53	28,15	0.02	0.11	0	0.01	0	0.02	0.29	0.24	0.12	0.8	3.96	29.3
625	2.64	20.99	3.52	27.78	0.03	0.28	0	0.07	0	0.01	0.21	0.21	0.12	0.65	3.88	2
875	2.57	18.35	3.44	24.91	0.05	0.36	0.01	0.2	0.01	0	0.26	0.18	0,13	0.6	3.9	26.2
1500	2.57	18.63	3.48	25.07	0.03	0.23	0.01	0.23	0	0.01	0.23	0.2	0.11	0.43	3.86	26.1
2000	2,37	16.01	3.28	22.63	0.04	0.17	0.04	0.27	0.03	0.03	0.33	0.33	0.08	0.34	3.8	23.7
2500	2.62	19.04	3.46	22.27	0.06	0.31	0.01	0.19	0	0.01	0.28	0.23	0.11	0.44	3.92	23.4
3500	2.47	16.89	3.34	22.69	0.06	0.36	0.02	0.36	0.01	0.01	0.29	0.24	0.09	0.45	3.81	24.1
4500	2.6	17.24	3.51	23.91		0.3	0.01	0.11	, 0	0.01	0.3	0.22	0.08	0.22	3.95	24.7
6250	2.39	16.28		23.38		0.44	0.02		0.01	0.03	0.36	0.29	0.06	0.2	3.83	24.5
8750	2.18	14.15		The state of the s	13200000000	0.44	0.05	0.61	0.02	0.05	0.45	0.27	0.07	0.17	3.62	20.5
30000	1.28	8.73		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1000 CM (1000)		0.21	1.99	0.03		1 35 35 5		2007/2007	0.2		
60000	0.34	2,31	0.59			-		4.74	0.16		-		0.07	0.25		
ALL	2.42	18.44	3.31	25.46	0.06	0.34	0.02	0.28	0.01	0.03	0.32	0.24	0.11	0.59	3.83	26.9

* ONLY POV DRIVER TRIPS INCLUDED

Dunphy & Fisher's chart from Transportation Research Record, No. 1552