

External Cost of Gasoline: for USA

= "Costs not paid for at the pump"

For 1997:	Billion \$/Yr Cost Range		\$/Gal. External Cost		
	Low end	High end	Low	High	Average
External Costs of Petroleum					
Environment, Health & Social costs:	\$ 231.7	\$ 942.9	\$ 2.00	\$ 8.13	\$ 5.07
Sprawl: (Environ, Cultural, Social, Municipal, & Transportatn)	\$ 163.7	\$ 245.5			
Health costs (due to petro use)	\$ 29.3	\$ 542.4			
Roads' Barrier effect on non-motorized travel	\$ 11.7	\$ 23.4			
Water Pollution	\$ 8.4	\$ 36.8			
Global Warming	\$ 3.0	\$ 27.5			
Noise Pollution	\$ 6.0	\$ 12.0			
Improper Disposal of auto's&parts	\$ 4.4	\$ 4.4			
Agriculture yield reductions	\$ 2.1	\$ 4.2			
Other Enviro, Health & Social costs	\$ 1.9	\$ 37.1			
Damage to Bldgs & Materials	\$ 1.2	\$ 9.6			
Other External Costs:	\$ 191.4	\$ 474.1	\$ 1.59	\$ 3.95	\$ 2.77
Subsidized Parking	\$ 108.7	\$ 199.3			
Travel Delays	\$ 46.5	\$ 174.6			
Transportation Accidents	\$ 18.3	\$ 77.2			
Weather related insurance costs	\$ 12.9	\$ 12.9			
US Import Dependence (w/o protectn \$)	\$ 5.0	\$ 10.1			
Protection Subsidies:	\$ 87.9	\$ 140.2	\$ 0.65	\$ 1.05	\$ 0.85
Safeguard world petro resources	\$ 55.0	\$ 96.3			
Police, Fire & Emergency response	\$ 27.2	\$ 38.2			
Strategic Petro Reserve	\$ 5.7	\$ 5.7			
Program Subsidies:	\$ 38.0	\$ 114.6	\$ 0.32	\$ 0.95	\$ 0.64
Roadway Constructn & Maint.	\$ 36.0	\$ 112.0			
Gov't R&D programs	\$ 0.2	\$ 0.2			
Export Financing	\$ 0.3	\$ 0.3			
Army Corp of Engrs	\$ 0.3	\$ 0.3			
Accessing Oil Resources: gov't oversight	\$ 0.0	\$ 0.2			
Regulation, Clean-up & Liability coverage	\$ 1.1	\$ 1.6			
Tax break Subsidies:	\$ 9.1	\$ 17.8	\$ 0.04	\$ 0.06	\$ 0.05
Federal Tax subsidies	\$ 4.2	\$ 10.5			
State & Local tax benefits	\$ 4.9	\$ 5.1			
New tax subsidy: TRA of 1997	\$ -	\$ 2.1			
Total External Cost for Petro. (1997):	\$ 558	\$ 1,690	\$ 4.60	\$ 14.14	\$ 9.37

Updated for 2010:					
Compounded Inflation rate (1997 to 2010):		136%			
Total External Cost for Petro. (2010):	\$ 873	\$ 2,684	\$ 6.24	\$ 19.19	\$ 12.72

TOTAL Cost of Gasoline per gal. - 2010:	<i>If pump \$/gal.=</i>	\$ 3.60	\$ 9.84	\$ 22.79	\$ 16.32
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Ratio of Total Cost to Pump price	2.7	6.3	4.5
% of Total Cost paid at Pump	37%	16%	22%

NOTES:

- This spreadsheet is a quick summary of 1997 dollars & consumption rates, from: "The Real Price of Gasoline" project report, by International Center for Technology Assessment (CTA), 1998, (& is not authorized by CTA).
- Wikipedia: "Gasoline & Diesel Usage"

9.12	million barrel per day in US, projected, for gasoline in 2010
140	Billion Gallon Gasoline/year in USA for 2010, (at 42 gal/barrel)
120	Billion Gallon Gasoline/year in USA for 1997.
- Average annual Inflation rate (approx):

2.38%	% annual US inflation rate average from 1997 to 2010
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- Source for Inflation Rates: InflationData.com - inflation calculator (yielded 36% compound inflatn 1997-2010)
- "Total Cost per gallon" calc is based on paying for all acknowledged external petroleum-related costs at gasoline/diesel retail sales.