Plan B 4.0 - Supporting Data for Chapter 10

Plan B Carbon Dioxide Emissions Reductions and Sequestration in 2020 Plan B Budget: Additional Annual Expenditures Needed to Meet Social Goals and to Restore the Earth Military Budgets by Country and for the World in 2008 and Plan B Budget The Real Price of Gasoline, 2007 Update

A full listing of data for the entire book is on-line at: http://www.earthpolicy.org/index.php?/books/pb4/pb4_data

Plan B Carbon Dioxide Emissions Reductions and Sequestration in 2020

Action	Amount	
	Million Tons of Carbon	
Energy Restructuring Replacing fossil fuels with renewables for electricity and heat	3,210	
Restructuring the transport system	1,400	
Reducing coal and oil use in industry	100	
Biological Carbon Sequestration		
Ending net deforestation	1,500	
Planting trees to sequester carbon	860	
Managing soils to sequester carbon	600	
Total Carbon Dioxide Reductions in 2020	7,670	
Carbon Dioxide Emissions in 2006	9,350	
Percent Reduction from 2006 Baseline	82.0	

Source: Calculated by Earth Policy Institute using International Energy Agency (IEA), *World Energy Outlook* 2008 (Paris: 2008), p. 507; IEA, *Tracking Industrial Energy Efficiency and CO2 Emissions* (Paris: 2007); Intergovernmental Panel on Climate Change (IPCC), *Climate Change 2007: Mitigation of Climate Change. Contribution of Working Group III to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change* (Cambridge, U.K.: Cambridge University Press, 2007), pp. 543, 559; and Rattan Lal, "Soil Carbon Sequestration Impacts on Global Climate Change and Food Security," Science, vol. 304 (11 June 2004), pp. 1,623–27.

Plan B Budget: Additional Annual Expenditures Needed to Meet Social Goals and to Restore the Earth

Goal	Funding
	Billion Dollars
Basic Social Goals	
Universal primary education	10
Eradication of adult illiteracy	4
School lunch programs for 44 poorest countries	6
Assistance to preschool children and pregnant	
women in 44 poorest countries	4
Reproductive health and family planning	17
Universal basic health care	33
Closing the condom gap	3
Total	77
Earth Restoration Goals	
Planting trees to reduce flooding and conserve	
soil	6
Planting trees to sequester carbon	17
Protecting topsoil on cropland	24
Restoring rangelands	9
Restoring fisheries	13
Protecting biological diversity	31
Stabilizing water tables	10
Total	110
Grand Total	187

Source: Compiled by Earth Policy Institute.

Military Budgets by Country and for the World in 2008 and Plan B Budget

Country	Budget	
	Billion Dollars	
United States	607	
China	85	
France	66	
United Kingdom	65	
Russia	59	
Germany	47	
Japan	46	
Italy	41	
Saudi Arabia	38	
India	30	
All Other	380	
World Military Expenditure	1,464	
Plan B Budget	187	

Source: Compiled by Earth Policy Institute with military spending from Stockholm International Peace Research Institute, *Military Expenditure Database*, electronic database, at www.sipri.org, updated 2009.

The Real Price of Gasoline, 2007 Update

Cost	Lower Bound	Upper Bound	Lower Bound	Upper Bound
	Billion Nomi	Billion Nominal Dollars		00 Dollars
Climate Change	3.4	30.9	3.2	29.0
Supply and Protection Costs	78.2	158.4	73.5	148.9
2005 Energy Policy Act Subsidies	6.0	6.0	5.3	5.3
Depletion Allowance	0.8	1.0	0.8	1.0
Fuel Production Tax Credit	0.8	0.9	0.8	0.9
Expensing E&D Costs	0.2	0.3	0.2	0.3
Enhanced Oil Recovery Tax Credit	0.0	0.1	0.0	0.1
Foreign Tax Credit	1.1	3.4	1.2	3.6
Deferral of Foreign Income	0.2	0.3	0.2	0.3
Accelerated Depletion Allowance	1.0	4.5	1.0	4.7
Other Tax Credit	0.1	0.1	0.1	0.1
State and Local Taxes	4.9	5.1	5.2	5.4
Government Spending Subsidies	38.0	114.6	39.8	120.1
Air Pollution	29.3	542.4	30.7	568.5
Agricultural Crop Losses	2.1	4.2	2.2	4.4
Loss of Visibility	6.1	44.5	6.4	46.6
Damage to Buildings	1.2	9.6	1.3	10.1
Oil Spills	2.2	2.2	2.3	2.3
De-Icing and Runoff	2.0	5.2	2.1	5.4
Impervious Area Effect	4.2	29.4	4.4	30.8
Noise Pollution	6.0	12.0	6.3	12.6
Disposal of Cars	4.4	4.4	4.6	4.6
Social Cost of Sprawl	163.7	245.5	171.6	257.3
Barrier Effect of Motor Vehicles	11.7	23.4	12.3	24.5
Other Costs	191.4	474.1	200.6	496.9
Oil Costs (incl. supply protection, subsidies,				
government spending)	131.3	294.7	128.2	290.7
Gasoline Costs (climate change,				
health/environmental effects, social costs)	427.7	1,427.8	447.9	1,493.0
2006 Oil Consumption:	233 billion gallo	ns		
2006 Gasoline Consumption:	104 billion gallo			
Total Costs per Gallon:	4.68	14.99	4.86	15.60
Average Indirect Costs per Gallon:	\$10.23 in 2000 dollars = \$11.92 in 2006 dollars			

Source: Compiled by Earth Policy Institute using International Center for Technology Assessment (ICTA), *The Real Price of Gasoline*, Report No. 3 (Washington, DC: 1998), p. 34; ICTA, *Gasoline Cost Externalities Associated with Global Climate Change: An Update to CTA's Real Price of Gasoline Report* (Washington, DC: September 2004); ICTA, *Gasoline Cost Externalities: Security and Protection Services: An Update to CTA's Real Price of Gasoline Report* (Washington, DC: January 2005); Terry Tamminen, *Lives Per Gallon: The True Cost of Our Oil Addiction* (Washington, DC: Island Press, 2006), p. 60; with price deflators from Bureau for Economic Analysis, "Table 3 - Price Indices for Gross Domestic Product and Gross Domestic Purchases," *GDP and Other Major Series, 1929-2007* (Washington, DC: August 2007); oil consumption from BP, *BP Statistical Review of World Energy* (London: June 2007); and gasoline consumption from Energy Information Administration, "Total Crude Oil and Petroleum Products," at

tonto.eia.doe.gov/dnav/pet/pet_cons_psup_dc_nus_mbbl_a.htm, updated 26 November 2007.