

Land

Estimated Abandoned Waste Tire Piles in the Border Region Figure 11		Type of indicator State - Response
		Goal and Objective: 3.3
Description of the INDICATOR		
<i>Definition</i>	Estimated Abandoned Waste Tire Piles in the Border Region Percent removed and original number of tires at the site, 2004 -2005	
<i>Importance of the indicator/purpose</i>	Throughout the border region, millions of scrap tires have accumulated in several waste tire piles. Composed of tires from both Mexico and the U.S., the piles tend to result from a robust market for partially used tires. Tire piles create ideal breeding grounds for mosquitoes, rodents, and other vectors of disease, which leads to a potential increase in the incidence of malaria, dengue fever, and encephalitis such as West Nile Virus. Further, tire pile fires are difficult to extinguish and can burn for months, emitting noxious fumes and generating liquid wastes that contaminate soil, groundwater, and surface water.	
<i>Units of measure</i>	Percent of tires removed (estimated) / Original number of tires at site	
<i>Concepts and definitions</i>	The goal of Border 2012 is to clean up three of the largest sites that contain abandoned waste tires in the U.S.-Mexico border region by 2010. The three priority tire piles are: <ul style="list-style-type: none"> • INNOR located in Mexicali, BC • El Centinela located in Mexicali, BC • Ciudad Juarez located in Ciudad Juarez, Chihuahua 	
<i>Data collection period</i>	2004 to 2005	
<i>Calculation</i>	Calculate the percent of tires removed by dividing the estimated quantity of tires removed by the estimated original number of tires at the site. Plot geographically the percent removed and original number of tires.	
<i>Sources of information</i>	Data were provided by SEMARNAT. Subsecretaria de Fomento y Normatividad Ambiental. 2006. (Table 13-1)	
<i>References (additional information)</i>	<p>Blackman, A. and A. Palma. 2002. <i>Scrap Tires in Ciudad Juarez and El Paso: Ranking the Risks. Discussion Paper 02-46</i>. Resources for the Future. Washington DC. http://www.rff.org/Documents/RFF-DP-02-46.pdf</p> <p>Lin, C., J.D. Miller and J.R. Parga. 200X. <i>Disposal Alternatives for Waste Tires in the Border Region</i>. http://www.scerp.org/projs/01rpts/P2-01-2.pdf</p> <p>U.S. EPA. 2005. <i>Summary Report for the Tire Removal at the INNOR Site, Mexicali, Mexico</i>. Prepared for the U.S. EPA Region 9 by Tetra Tech. EM Inc. July 29, 2005.</p> <p>SECRETARIA DE MEDIO AMBIENTE Y RECURSOS NATURALES. DIARIO OFICIAL. Miércoles 8 de octubre de 2003. page 10.</p>	
<i>Limitations of the indicator</i>	<p>The exact number of tires at some locations is difficult to estimate.</p> <p>This indicator does not take into capture the number of tires being cleaned up from smaller tire piles in the border region.</p>	