

Healthy People 2010 Operational Definition

27-20. Reduce the sales-weighted average level of toxic chemicals in tobacco products sold in the United States.

27-20a. Tobacco-specific nitrosamines.

National Data Source	Office on Smoking and Health, NCCDPHP, CDC; and Division of Laboratory Sciences, NCEH, CDC.
State Data Source	Not identified.
Healthy People 2000 Objective	Not applicable.
Changes since the 2000 Publication	New subobjective (see Comments). Revised baseline year (see Comments).
Measure	Average level of nitrosamines in the smoke of cigarettes sold in the United States (nanograms per cigarette).
Baseline (Year)	121.5 (2003-04)
Target	109.4
Target-Setting Method	10 percent improvement. For a discussion of target-setting methods, see Part A, section 4.
Numerator	Not applicable.
Denominator	Not applicable.
Population Targeted	Not applicable.
Questions Used To Obtain the National Baseline Data	Not applicable.
Expected Periodicity	Periodic
Comments	Objective 27-20 moved from developmental to measurable at the Healthy People 2010 Midcourse Review. The text was revised from reducing the toxicity of tobacco products “by establishing a regulatory structure to monitor toxicity” to “reducing the sales-weighted average of toxic chemicals” in

tobacco products sold in the United States. Three subobjectives were created to track various toxic chemicals (nitrosamines, polyaromatic hydrocarbon compounds, and volatile organic compounds) in the smoke of cigarettes.

The analytic chemistry data come from laboratory research conducted at the National Center for Environmental Health, CDC.

The CDC laboratory method for measuring tobacco-specific nitrosamines (TSNAs) was improved by increasing the extraction efficiency (i.e., the ratio of the amount of TSNAs measured to the actual amount of TSNAs present in the smoke sample). The 2007 TSNA data was generated using the improved method. The baseline TSNA data point was generated using the previous method. To allow comparisons between the 2007 data point and the baseline data point, the 2007 data are presented in two ways: scaled (108.1 nanograms/cigarette) by the respective recovery factors to provide equivalency between the previous and improved laboratory methods and unscaled (171.6 nanograms/cigarette).

The baseline year was revised from 2003 to 2003-04 because the cigarettes used to test TSNAs at baseline were purchased in 2003 and 2004.

The expected periodicity of the data was changed from annual to periodic. Updates for this objective are expected to be available in 2007 and 2010.

See Appendix A for focus area contact information.