

## Colorado Smoke-Sensitive Areas map - Update for 2010 Census

### Summary

APCD's smoke sensitive areas (SSA) map has been updated to reflect changes between the national 2000 and 2010 censuses in which of Colorado's census tracts have at least 500 residents per square kilometer. The overall increase in mapped smoke sensitive areas is 26.0 square miles. The revised SSA map is posted on APCD's smoke website as both a [.jpg](#) and as a zipped [GIS layer](#).

### Background

The SSA map designates places in Colorado where extra restraint is smoke management appropriate. The areas are:

- in maintenances status for particulate pollution, formerly non-attainment or (Cripple Creek) that created a maintenance plan to avoid formal non-attainment designation and/or
- within 3 miles of a residential health care facility and/or
- within 5 miles of the state's most urban places as indicated by a census tract population density of at least 500 residents per square kilometer, or 1295 residents per square mile.

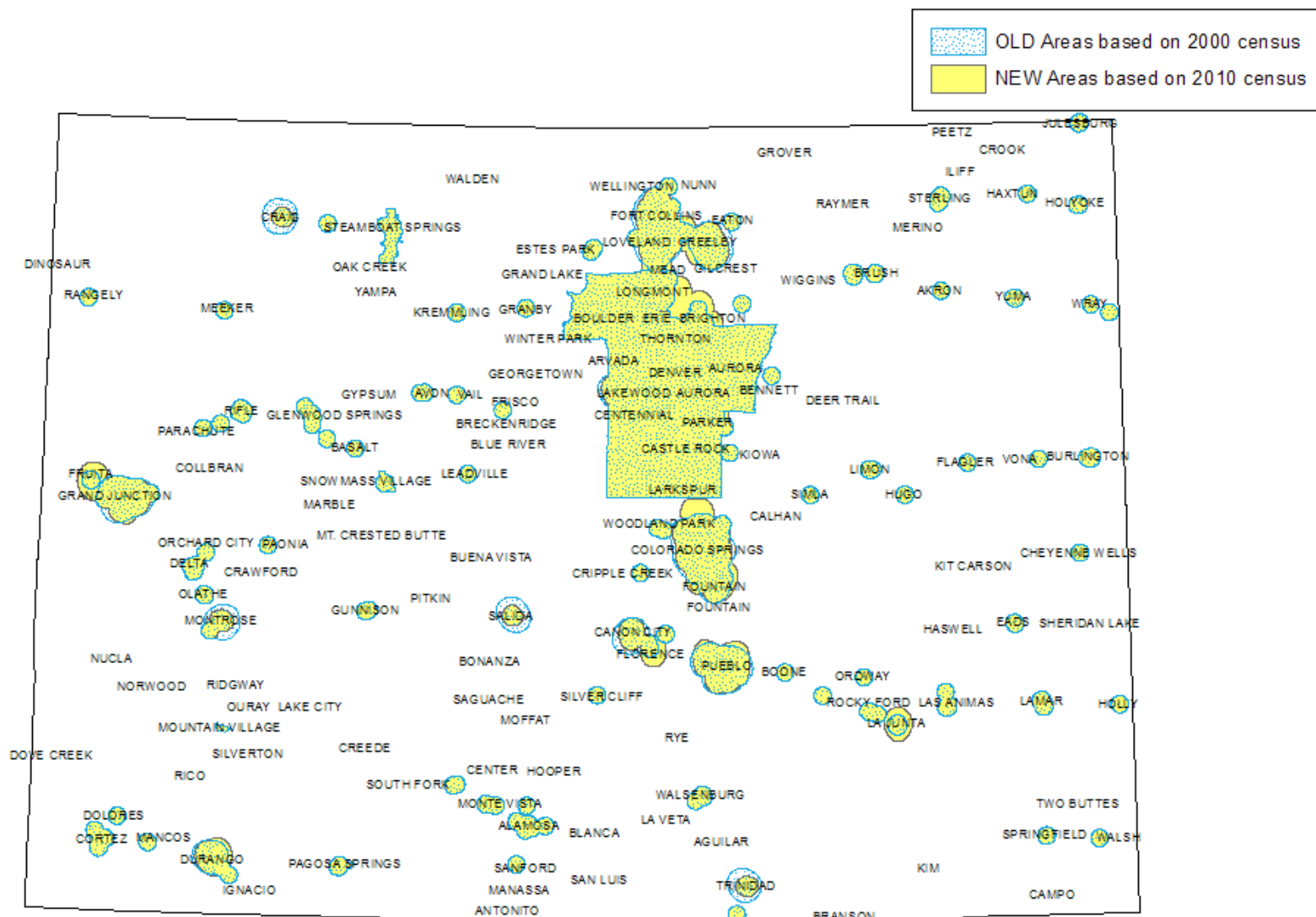
In 2010 changes were made to the SSA map. Buffer distances were reduced by about half. The buffer around residential health care facilities was reduced from 5 miles to 3 miles. The buffer around high-density census tracts was reduced from 10 miles to 5 miles. Finally, the base map of residential health care facilities was updated to 2009. Previously data from 2005 was used. As of December 2010, the 2009 map remains the most current available.

In the time since the SSA map updates were developed over a year ago, additional processed data from the 2010 census has become available.

Colorado's population overall increased from 4.3 million residents in 2000 to five million in 2010. The 17% increase was 75% again as much as the nation overall. The total area in Colorado census tracts with at least 500 residents per square kilometer grew, though not quite as much as overall population increased. The area in high-density tracts increased from 736 square miles in 2000 to 844 square miles in 2010, or 15%. Incorporating the 2010 census changes with particulate maintenance areas and buffered residential health care facilities smoothed out the increase considerably because the criteria for inclusion in the SSA map already overlap so much.

Illustrative maps follow.

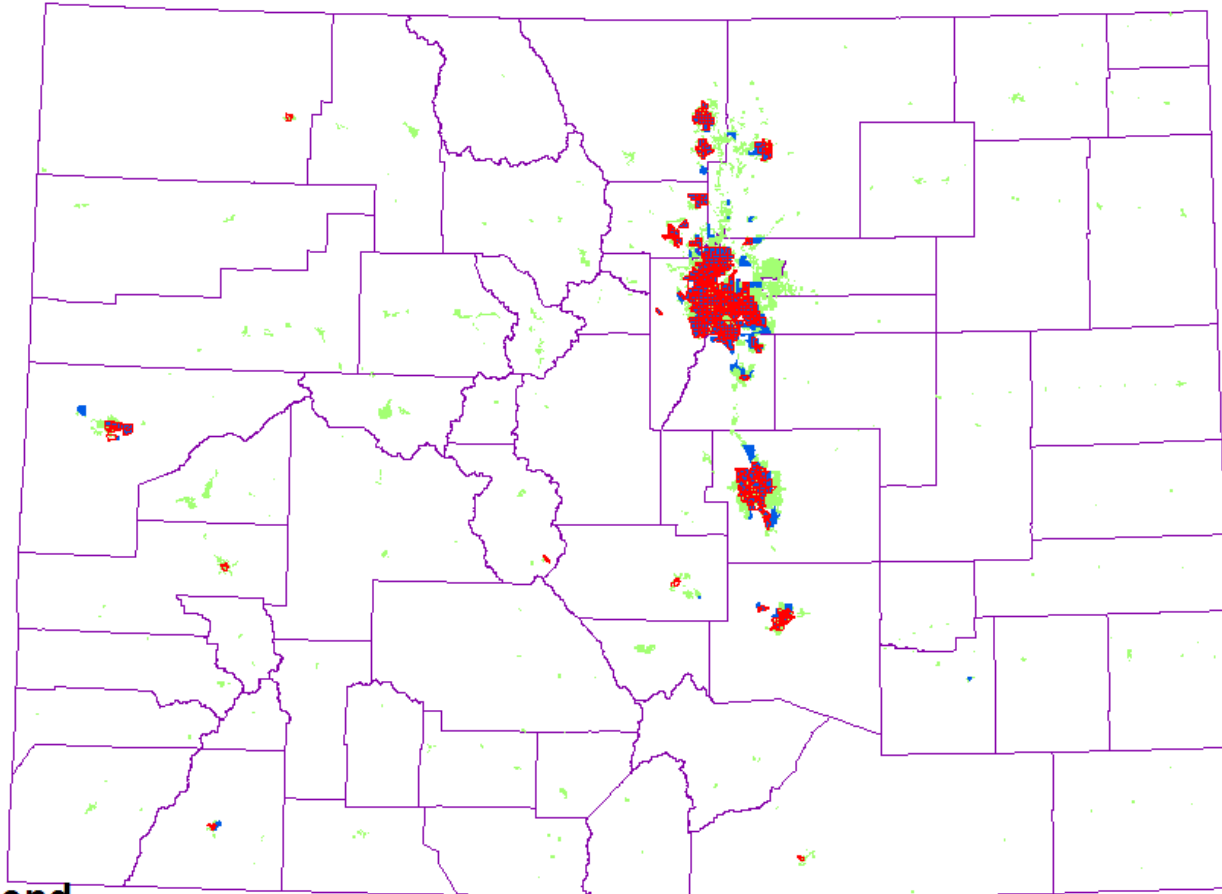
## Overall Change in Mapped Smoke-Sensitive Areas






Updated 12/21/11

For the map's use in permitting see the Broadcast Worksheet,  
<http://www.cdphe.state.co.us/ap/smoke/Docs/WorksheetBroadcastSmoke.doc>

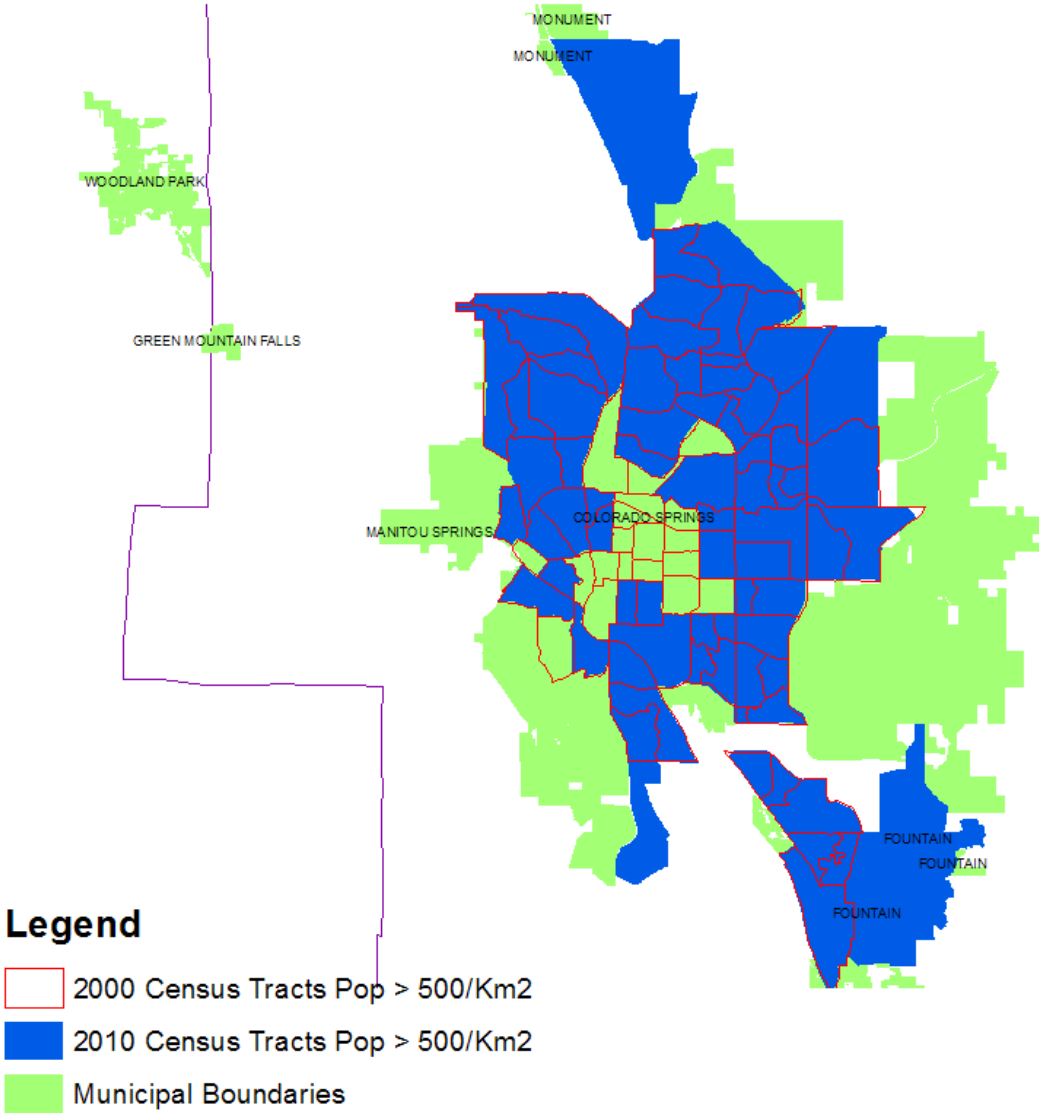
## Change in High-Density Census Tracts Statewide



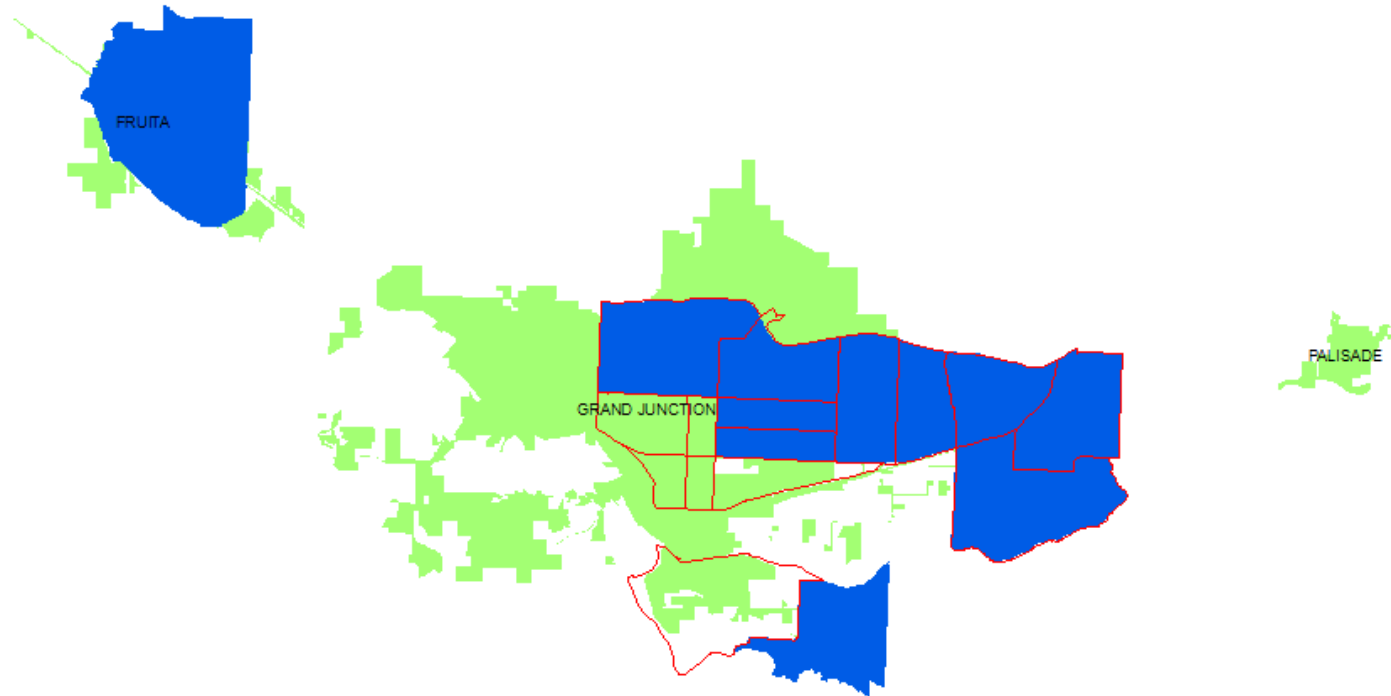
### Legend

-  2000 Census Tracts Pop > 500/Km<sup>2</sup>
-  2010 Census Tracts Pop > 500/Km<sup>2</sup>
-  Municipal Boundaries




# Change in High-Density Census Tracts Detailed Example - Colorado Springs



## Change in High-Density Census Tracts Detailed Example - Grand Junction



### Legend

-  2000 Census Tracts Pop > 500/Km<sup>2</sup>
-  2010 Census Tracts Pop > 500/Km<sup>2</sup>
-  Municipal Boundaries