

# STATE OF COLORADO

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Bill Owens, Governor  
Dennis E. Ellis, Executive Director

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Colorado Department  
of Public Health  
and Environment

June 30, 2006

The Honorable Jack Pommer, Chairman  
Transportation Legislation Review Committee  
Colorado State Capitol  
200 East Colfax  
Denver, Colorado 80203

Dear Chairman Pommer and Committee Members:

Enclosed is a copy of the second annual report to the Transportation Legislation Review Committee on the status of waste tire recycling in Colorado. House Bill 04-1428 requires this report.

Sincerely,

Gary W. Baughman, Director  
Hazardous Materials and Waste Management Division

Enclosure

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Colorado Department  
of Public Health  
and Environment

**Second Annual Report to the Transportation Legislation  
Review Committee  
on the  
Status of Waste Tire Recycling  
In Colorado for Calendar Year 2005**

Submitted to the Transportation Legislation Review Committee  
by the Division of Hazardous Materials and Waste Management  
Colorado Department of Public Health and Environment  
June 30, 2006

## DOCUMENT INFORMATION

Title: Second Annual Report to the Transportation Legislation Review Committee on the Status of Waste Tire Recycling in Colorado

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Contributing Authors and Technical Assistance: Hazardous Materials and Waste Management Division:  
Charles G. Johnson, Solid Waste Unit Leader  
Joe Schieffelin, Solid and Hazardous Waste Program Manager

Subject: The report describes the status of waste tire recycling activities in the state of Colorado for calendar year 2005.

Statute: Section 25-17-202.7, C.R.S.

Date: June 30, 2006

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For additional information or copies:

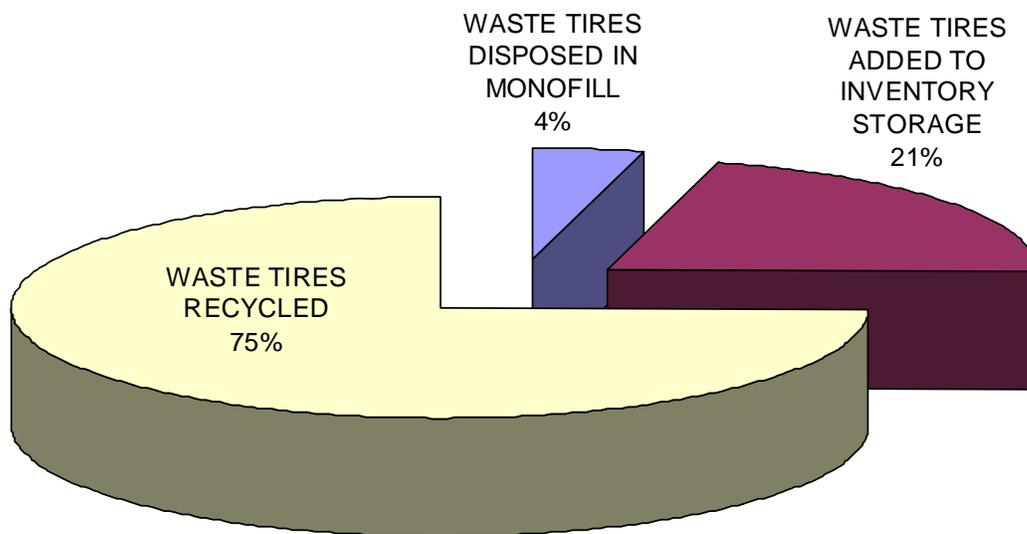
Joe Schieffelin, Solid and Hazardous Waste Program Manager  
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This second annual report on waste tire recycling is being transmitted to the Transportation Legislation Review Committee (the Committee) as required by House Bill 04-1428 and section 25-17-202.7, et seq., C.R.S. The revised statute requires the Colorado Department of Public Health and Environment (the department) to issue a report to the Committee on or before July 1st each year for the total number of waste tires recycled in the state according to information submitted to the department pursuant to the Regulations Pertaining to Solid Waste Sites and Facilities (6 CCR 1007-2, Sections 8.4.1(B) and 10.2.2.).

A total of 3,251,797 waste tires (or scrap tires) were recycled in the State of Colorado during calendar year 2005. As shown in Figure 1 (below), 75% of the waste tires that were generated during this period were recycled. Of the remaining 25% of waste tires generated, 4% were disposed in a permitted tire monofill and 21% were added to inventory storage awaiting further processing and development of end-use markets.

**Figure 1**

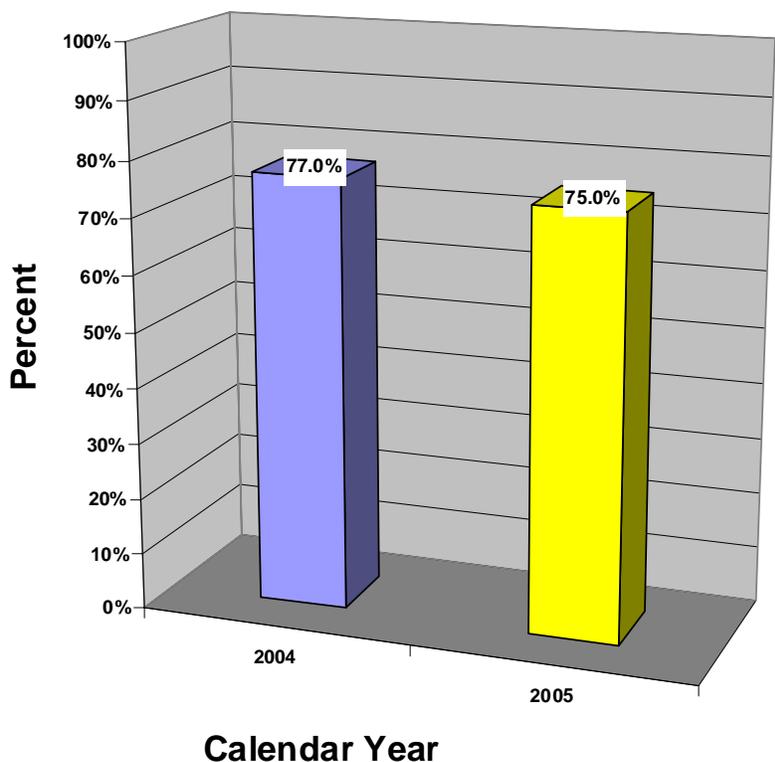
**WASTE TIRES GENERATED IN 2005  
PERCENTAGE OF TIRES RECYCLED**



As Figure 2 illustrates, the percentage of waste tires that were recycled during calendar year 2005 fell slightly (2%) when compared with the percentage of tires recycled during calendar year 2004.

**Figure 2**

**Comparison of Percents Recycled**



While the department cannot explain this slight decrease, it is still encouraging to report that 75% of the tires received by waste tire handling facilities were recycled. The department gathers this information through annual reporting of scrap tire disposal and recycling facilities. The department continues to engage in outreach efforts to identify and educate the universe of regulated facilities regarding the compliance and reporting responsibilities. Concurrently, the regulated community has taken significant strides to improve the inventory accounting methods and hence, the accuracy of reporting.

Figure 3 (below) captures the end-use markets for waste tires that were recycled during calendar year 2005. Of the seven end-use markets identified, the top four end-use markets included burning waste tires as tire derived fuel, the use of shredded tires as a vibration dampening layer for light rail expansion (T-REX construction project), the resale of whole tires for reuse, and the utilization of tire shreds as the leachate drainage layer in private and government-owned sanitary landfills.

**Figure 3**

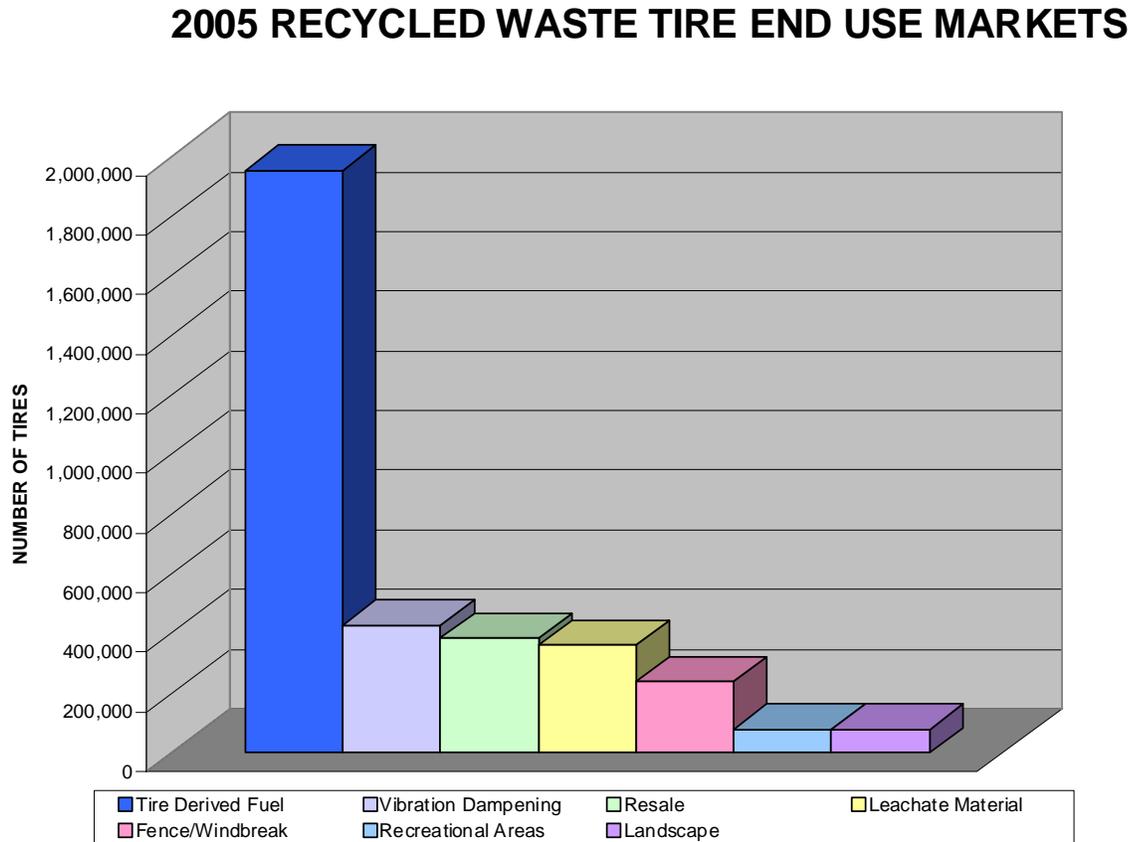
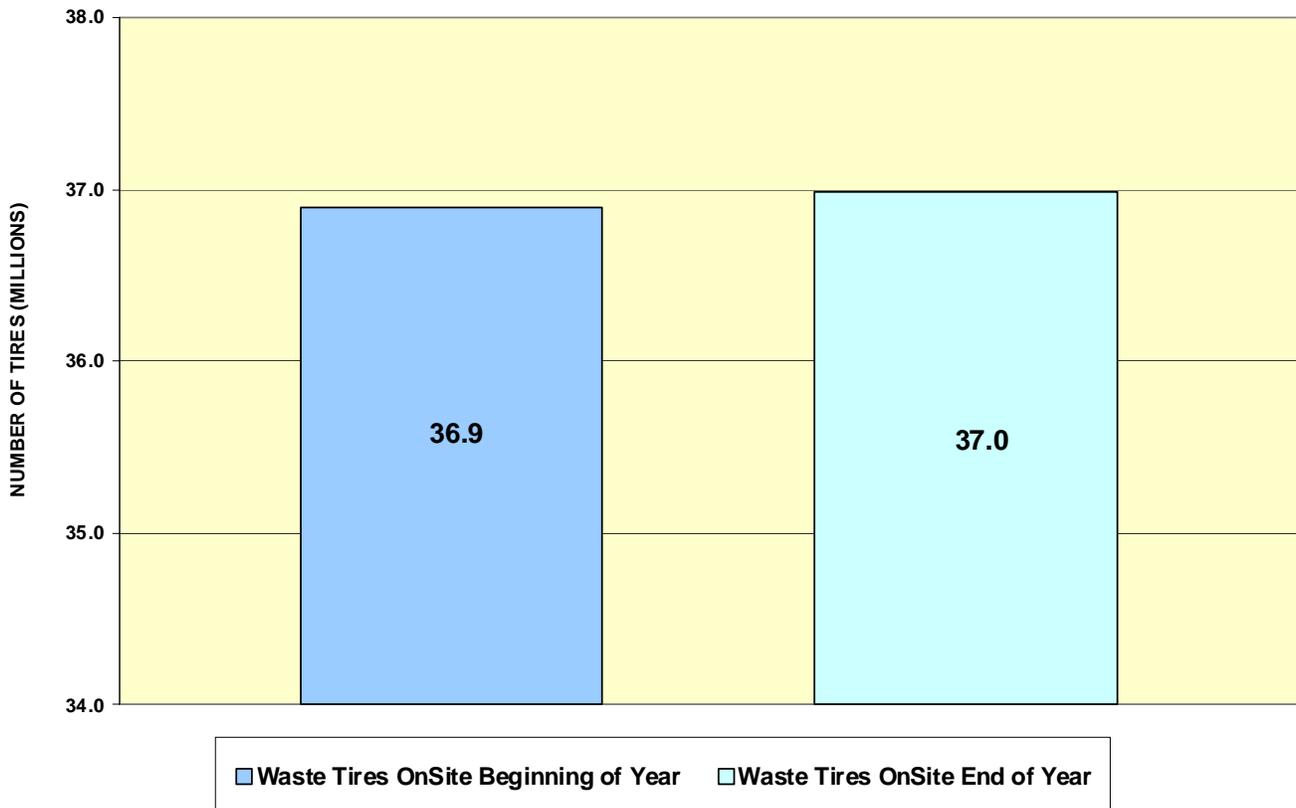


Figure 4 (below) reflects the number of waste tires in storage at designated tire facilities statewide at the end of calendar year 2005. As this chart illustrates, the on-site waste tire inventory increased slightly during the course of the year. While some tire handling facilities in the state increased the storage inventories while awaiting further processing and development of end-use markets, other tire facilities actually decreased the storage inventory through recycling efforts that led to tires being shipped off-site for reuse.

**FIGURE 4**

**2005 WASTE TIRE INVENTORY**



2005 Legislation

Two bills were passed during the 2005 legislative session that directly impact the management of waste tires in Colorado. The Waste Motor Vehicle Tire Hauler Act (HB 05-1126) requires the registration of commercial transporters of waste motor vehicle tires. This should ensure the transportation and delivery of waste tires to proper disposal and recycling facilities and minimize the illegal dumping of tires. Senate Bill 05-141 regulates the disposal of residentially generated lead acid batteries, waste oil and waste tires. Effective July 1, 2007, this bill limits the disposal of residentially generated tires in landfills. The combined result of these bills should be to ensure that tires are commercially transported to appropriate facilities, and that more of these tires are ultimately recycled. Data collected through future surveys should document the net effect of the subject legislation.

In conclusion, it is encouraging to report that 75% of the tires received by waste tire handling facilities were recycled. For future reports, the department will continue to refine the process by which tire data is collected and analyzed, as well as continue outreach efforts to educate the regulated community to improve the quality and consistency of the information reported to the department.