2004 Recycling Summary

This summary is a review of all recycled materials diverted from Montana landfills in 2004. The data presented in this summary on total recycled materials was obtained by reviewing permit renewal applications from all state licensed solid waste management facilities including landfills, transfer facilities, compost operations and resource recovery facilities. Data from non-licensed recycling organizations businesses and end processors was obtained through voluntary participation in the 2004 Montana Recycling Survey.

Summary of Data	Total Tons	Percentage of Total
Solid Waste Generated:	1,472,320	100%
Landfilled Waste:	1,238,265	85%
Incinerated Waste:	11,967	less than 1%
Recycled Material:	176,296	12%
Composted Material:	45,792	3%
Total Diversion Rate:	222,088	15%

This data has been used with conjunction with the national Recycling Coalition's Environmental Benefits Calculator. The calculator generates estimates of environmental benefits based on the number of tons of specified materials recycled, landfilled and incinerated in Montana. The calculator yields detailed information in the following areas:

- Reductions in Greenhouse Gas Emissions through Recycling
- Energy Savings from Recycling
- □ Life Cycle Stage Comparisons

- Air Emissions and Waterborne Wastes
- Select National Resource Savings
- Number of Trees Saved

Review of Montana Recycled Materials Converted by Environmental Benefits Calculator

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Reductions in Greenhouse Gas Emissions through Recycling			
Greenhouse Gas Emissions Associated with Recycling	-141,934		
Greenhouse Gas If All Landfilled	3,968		
Net Greenhouse Gas Emissions from Recycling Compared To Landfilled	-145,902		
Greenhouse Gas Reduction in Passenger Cars Equivalent	-110,092		
Energy Savings from Recycling			
Net Energy from Recycling Compared to Disposal (millions BTU)	-5,243,688		
Energy Savings in Per Household Equivalent	-49,845		
Life Cycle Stage Comparisons			
Energy Used During Recycling and Processing (millions BTU)	143,084		
Energy Used Waste Collection and Landfill	53,269		
Energy Used During Waste Collection, Processing and Incineration	185,758		
Energy Used for State's Average Mix of Landfill and Incineration	54,537		

Air Emissions and Waterborne Wastes

Reduced Emissions Due to Recycling (tons) 212,197.6 AIR EMISSIONS Reduced Emissions Due to Recycling (tons) 767.7 WATERBORNE WASTES

Total (Excluding CO2 and Methane) 4,808.5

Select National Resource Savings

Total Tons Resources Saved 149,596

Number of Trees Saved

From recycling newsprint, mixed paper and office paper 278,364

In summary, there are many ways to express the resource savings that recycling effects. Even when considering energy used to recycle, the savings in resources rationalizes the value of recycling. As Montana recycling statistics increase, the efficiency will only become more evident. For more information on recycling visit the DEQ website at: www.deq.mt.gov/recycle/index.asp