

# Utah Waste Tire Recycling Program

September 22, 2009

Utah Division of Solid and Hazardous Waste



# Utah Waste Tire Program

## Program History

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# Legislative Findings

- ❖ **Disposal of waste tires a statewide concern and recycling should be promoted**
- ❖ **Recycling will decrease the number of tires disposed and will reduce the health and safety hazards**
- ❖ **Legislative intent to encourage the development of the recycling industry and markets for recycled products.**



# Utah Waste Tire Recycling Act originally passed in 1990

- Fee on new tires sold
  - ⌘ \$1 fee on tires with a rim diameter of 14 inches or less
  - ⌘ \$1.50 for a single bead tire with a rim diameter between 14 and 19.5 inches
  - ⌘ \$2 for a dual bead tire with a rim diameter of 19.5 inches, and
  - ⌘ \$2 for single or dual bead tires with a rim diameter between 20 and 26 inches
  - ⌘ Fee is collected by dealers on all new tires sold and all new cars sold
- Recycling reimbursement - \$21.00 per ton

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# Utah Waste Tire Program

Current Statute

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# Features of Current Statute

- ❖ **Ban on disposal of tires in landfills**
  - **Whole tires are banned from landfills except when received no more than four at a time**
  - **Tire shreds may be monofilled**
  - **Whole tires may be landfilled if received no more than four at a time**
  - **Tires larger than 24.5 inches and tires from devices moved by human power are excluded**



# Features of Current Statute Cont.

- ❖ **Recycling fee of \$1.00 per new tire sold**
  - **Collected on all new tires sold in the state with rim diameter of 24.5 inches and less**
  - **Collected on all new cars sold in state**
  - **Not collected on tires for any device moved by human power**
  - **Dealers take 2.5% for cost of administration**
  - **Tax Commission takes 2.5% for cost of collection**





# Features of Current Statute cont.

- ❖ **Recycler and Transporter registration**
  - Tire transporters and recyclers must register
  - No recycling reimbursements paid to unregistered recyclers
  - No recycling reimbursement paid to recyclers for tires received from unregistered transporters
  - Tire dealers are not required to register as transporters
  - Recyclers are not required to register as transporters



## **Features of Current Statute cont.**

- ❖ **Transporter reporting of tires picked up from dealers required on quarterly basis**
  
- ❖ **Tire pile cleanup funded**
  - **Cleanup of piles with no tires added after June 30, 2001 are funded at 100%**
  - **Cleanup of piles with tires added after June 30, 2001 are funded at 60%**



# Features of Current Statute cont.

- ❖ **Recycling reimbursement for tire recycled within the state:**
  - \$65.00 per ton for crumb
  - \$50.00 per ton for recycling other than crumb
  - \$20.00 per ton for beneficial
  
- ❖ **Monofilling of shredded tires reimbursed at \$20.00 per ton**





# Features of Current Statute cont.

- ❖ Local health departments responsible for recycling reimbursement administration
- ❖ DEQ responsible for determining processes that qualify for rebate
- ❖ Civil and criminal penalties



# Recycling Definition

- ❖ **Recycling is defined as:**
  - Recover energy or produce energy,
  - Crumb rubber,
  - Chipped tires, or
  - Ultimate product
- ❖ **Recycler must use 100,000 tires or 1,000 ton per year**



# Beneficial Use Definition

- ❖ **Beneficial Use is defined as using chipped tires in a manner that is not recycling, storage, or disposal**
- ❖ **Beneficial use includes:**
  - **Landfill daily cover**
  - **Civil engineering purposes**
  - **Light-weight aggregate fill**
  - **Septic drain fields** (Technology not currently approved by the Division of Water Quality)





# **Beneficial Use Definition cont.**

- ❖ **Beneficial use does not include:**
  - **Fences**
  - **Use as fill other than light-weight fill**



# Recycling Fee Uses

- ❖ Reimbursement to recyclers for recycling and beneficial use
- ❖ \$5.00 per ton of tires recycled or beneficially used to local health departments for administration of program
- ❖ \$128,800 for DEQ administration of program



# Waste Tire Pile Cleanups

- ❖ Cleanups of abandoned piles and piles at municipally operated landfills allowed
- ❖ Each pile cleanup is conducted through a competitive bid process – any registered transporter or recycler may bid





# **Waste Tire Pile Cleanups cont.**

- ❖ **Tires cleaned up must be taken to a registered recycler**
- ❖ **Average cost of cleanups - \$ 93.00 per ton**



# Utah Waste Tire Program

## Waste Tire Fund Current Status

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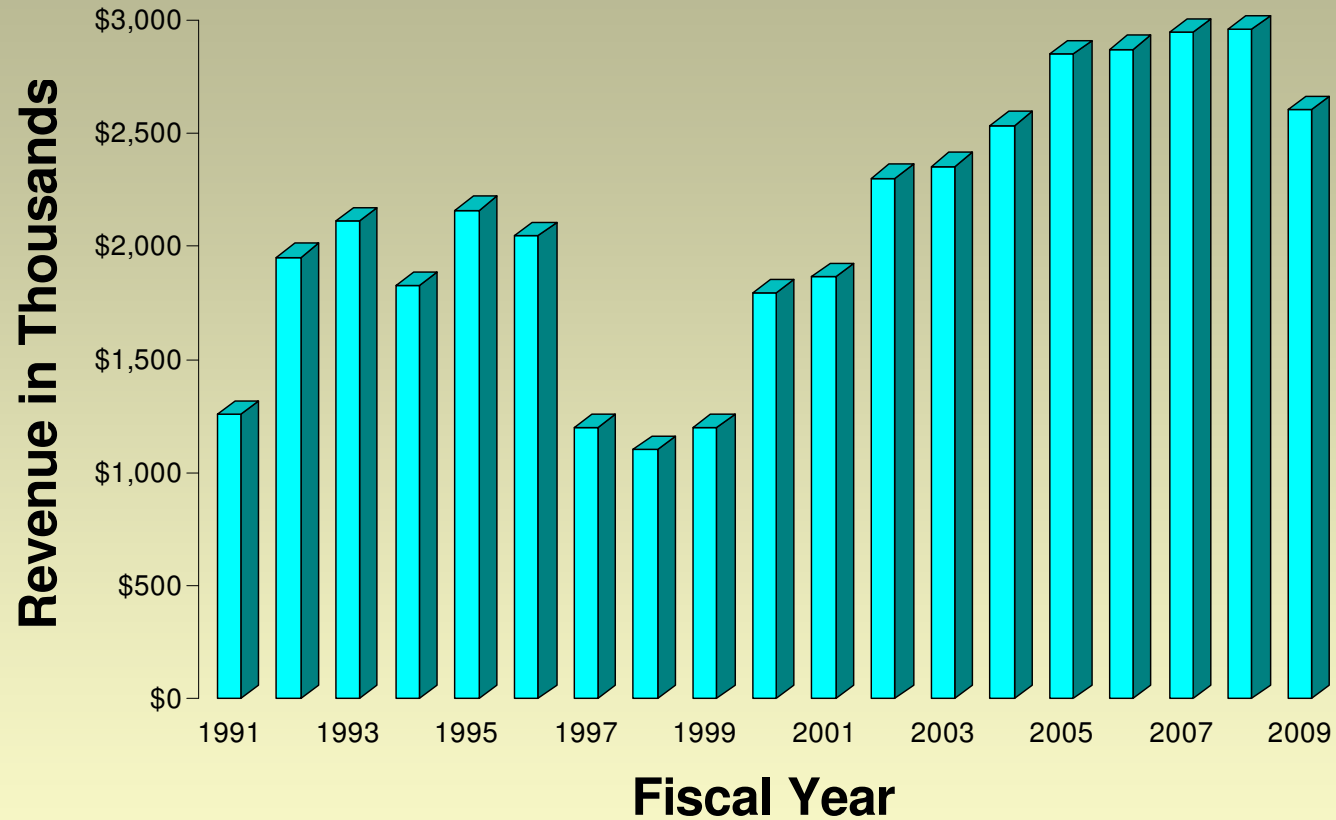


# Current Recycling Markets

- ❖ **Three recyclers currently registered**
  - One kiln using tires as fuel
  - One landfill using chips as daily cover
  - One crumb manufacturer
- ❖ **FY09 percentage of use**
  - Crumb 43%
  - Recycling 54%
  - Beneficial use 3%



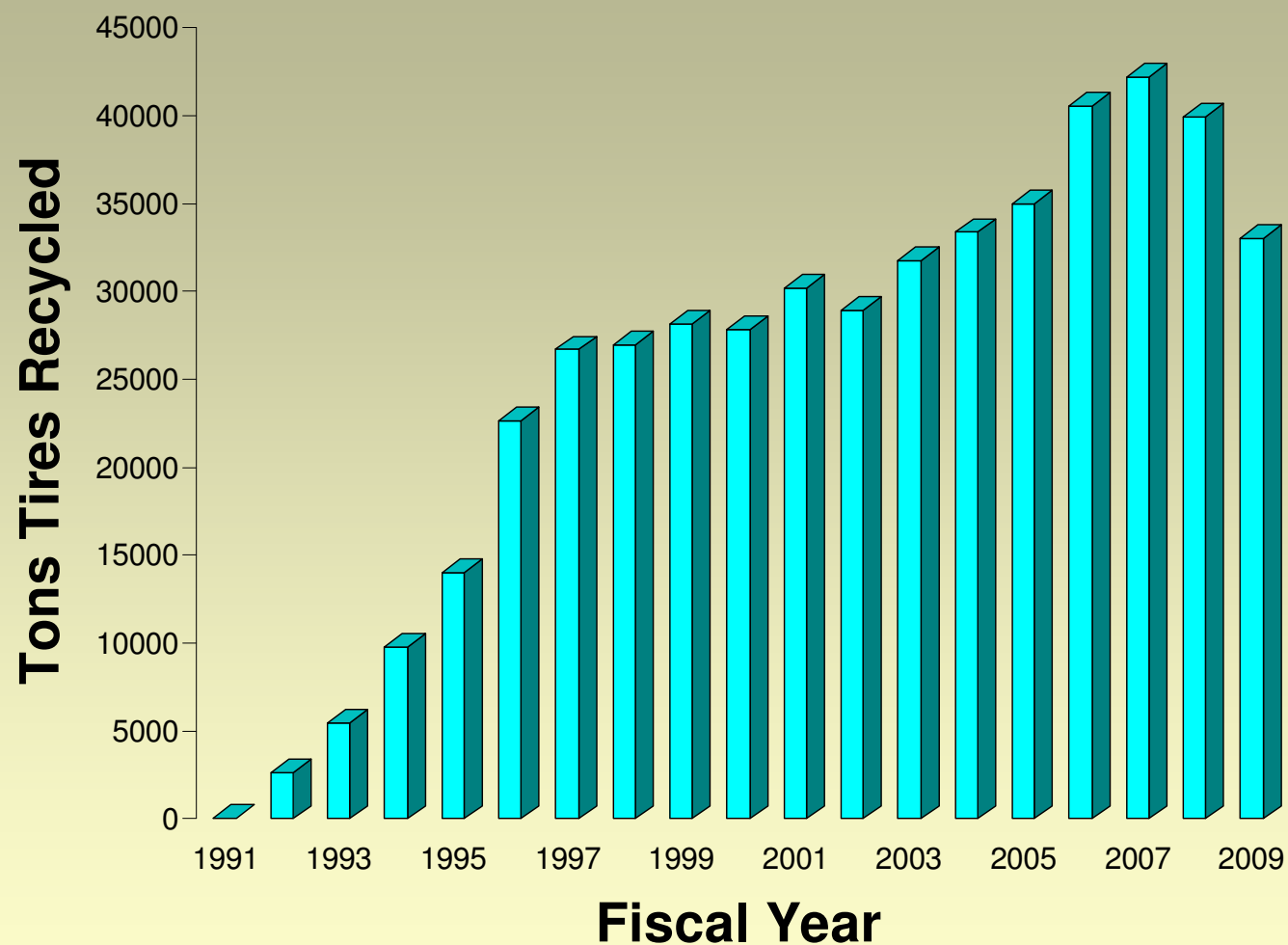
# Fund Revenue



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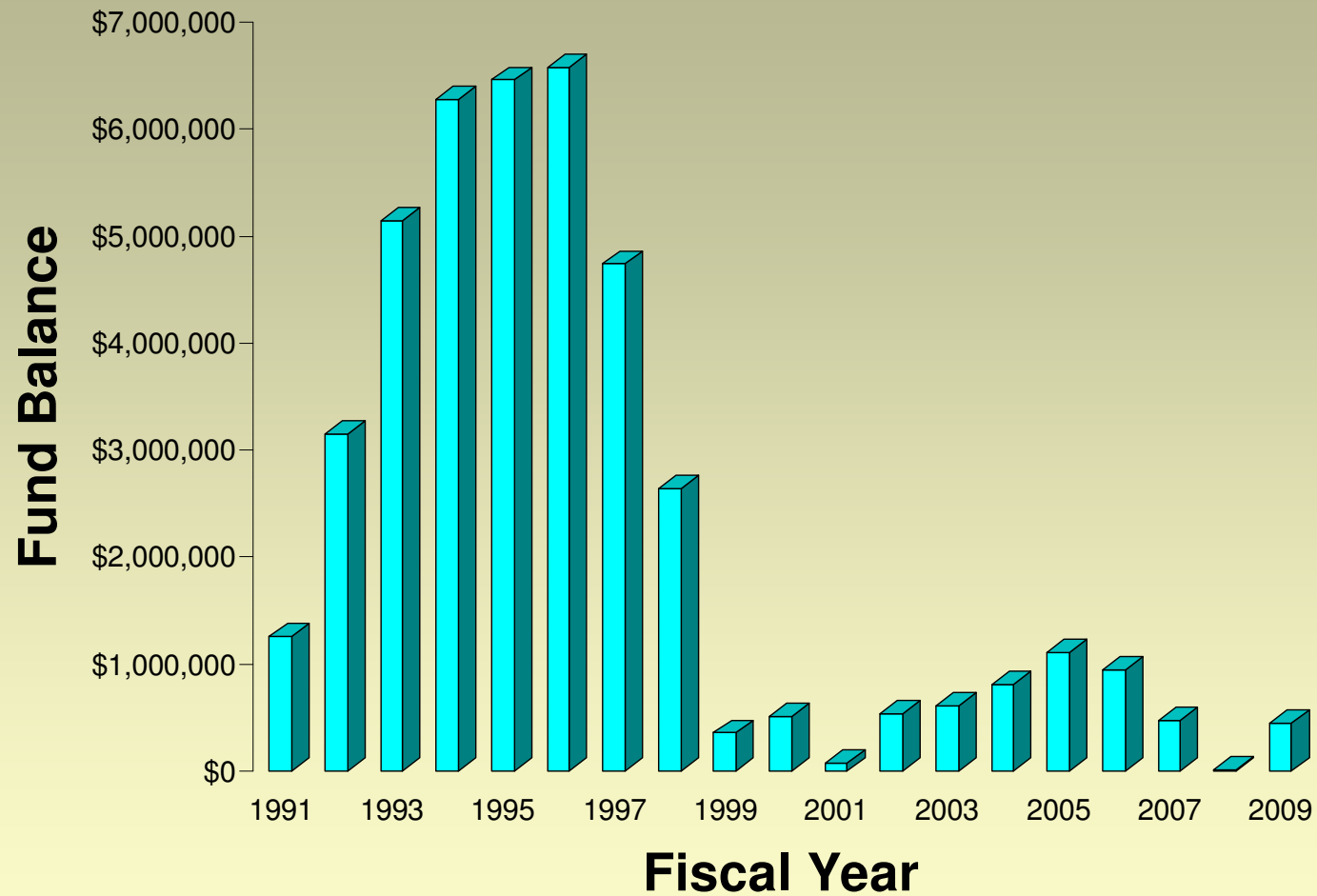
# Waste Tires Recycled



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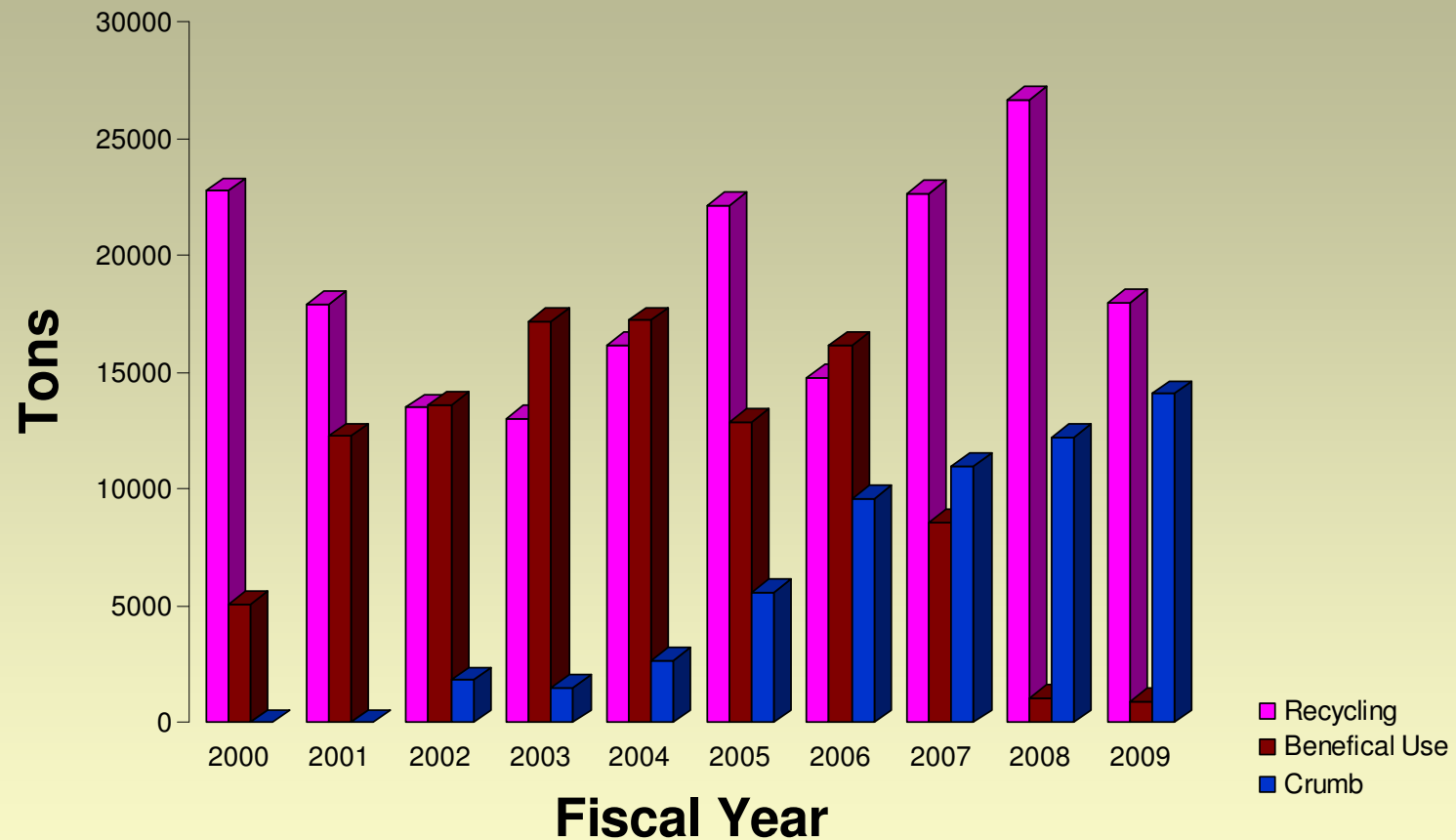
# Fund Balance



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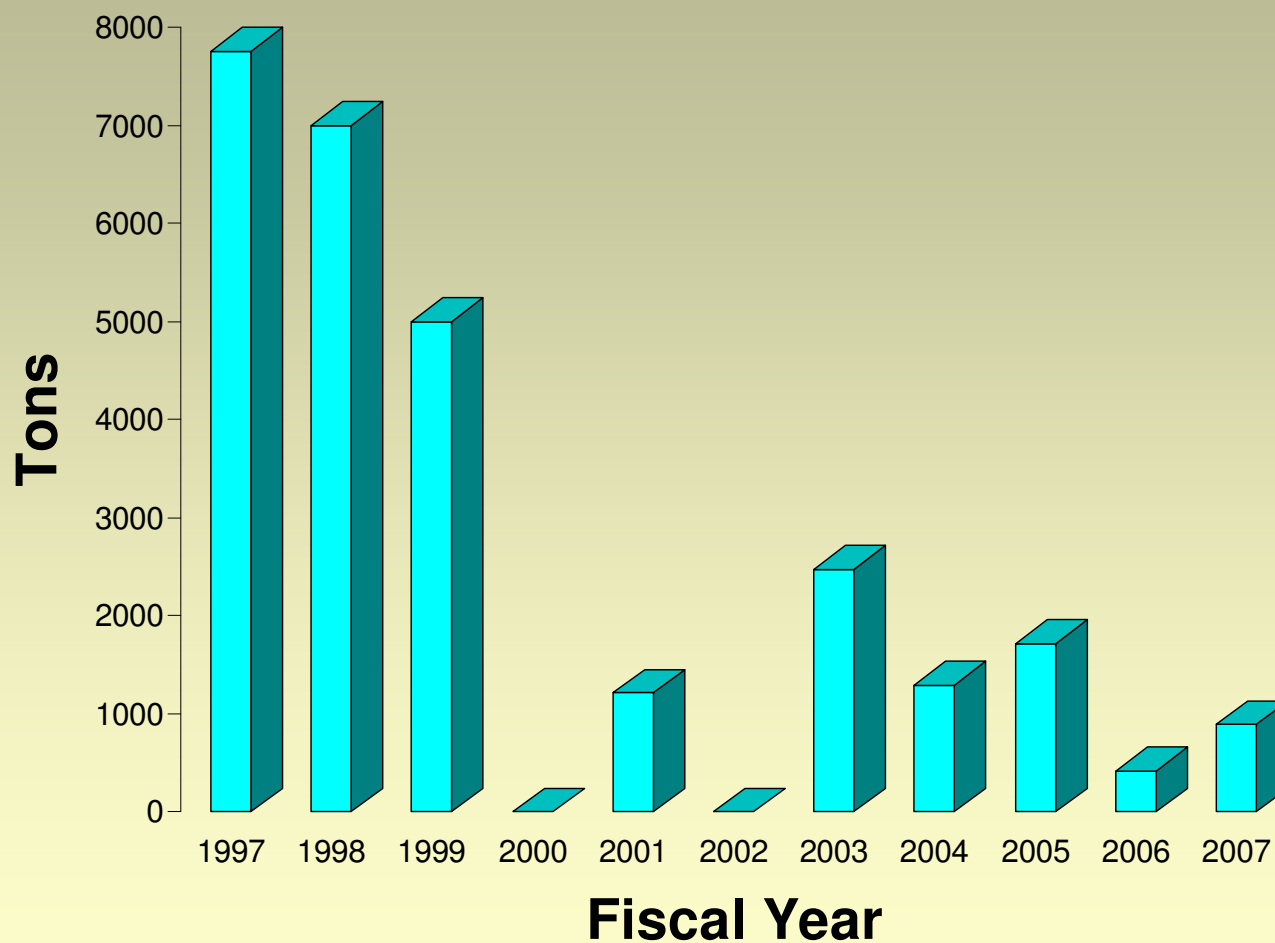
# Recycling Type



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# Waste Tire Pile Cleanups



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# Positive Results

- ❖ **Currently all waste tires generated in Utah are processed for recycling or beneficial use**
- ❖ **Waste tire piles throughout the state have been cleaned up**
- ❖ **Crumb rubber manufacturer has been able to take advantage of out-of-state markets**



# Current Issues

- ❖ **Collection of recycling fee**
- ❖ **Deciding processes eligible for recycling reimbursement**
- ❖ **Recycling market is not independent of the reimbursement**
- ❖ **Relatively small volume of tires available in Utah limits market development**
- ❖ **Oversight of pile cleanups**



# Current Issues

- ❖ High capital cost of recycling equipment limits competition
- ❖ Waste tire recycling fund has created a market for all tires generated in Utah but only limited competition



# Waste Tire Processing



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# Crumb Rubber Manufacture



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# Crumb Rubber Shipment



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# Crumb Rubber



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# Products



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# Products



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**Jumping Jack Flash**  
loves working out  
and staying sound on  
**Rubber Footing**

Impact Absorption • Reduces Dust and Mud • Improves Footing

**Crumb Rubber for Horse Arenas**  
**is now available in Utah.**

With production in Utah, the economics for crumb rubber  
has greatly improved.



**UTAH TIRE RECYCLERS**

1398 North Beck Street • Salt Lake City, UT 84116

**801-364-7900**

*Call today for information and a quote on your arena.*

# Contact Information

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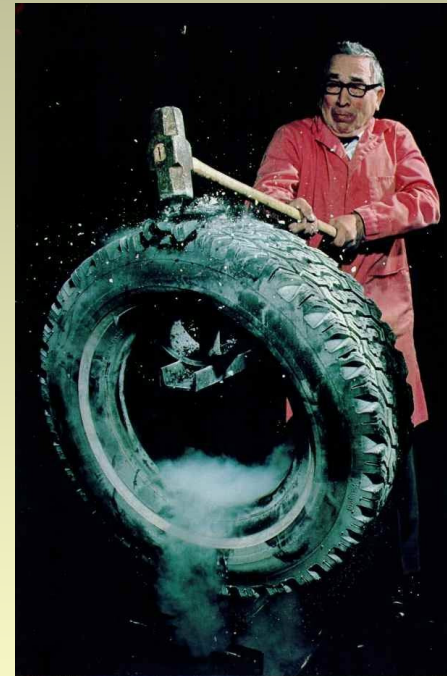
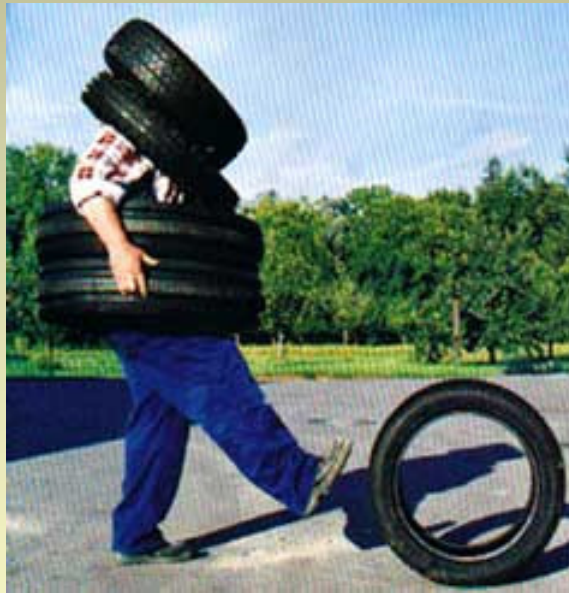
**Web Page**

**[http://www.hazardouswaste.utah.gov/SWBranch/SWSection/Waste\\_Tire\\_Program.htm](http://www.hazardouswaste.utah.gov/SWBranch/SWSection/Waste_Tire_Program.htm)**

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# Questions ?



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