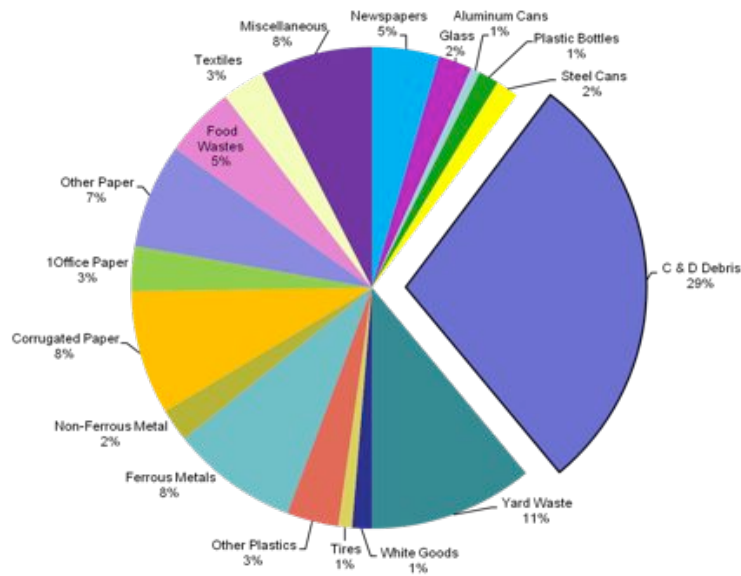




## CONSTRUCTION & DEMOLITION DEBRIS RECYCLING WORKSHOP

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## Florida Municipal Solid Waste 2006



## What is C&D?

62.701.200(27) **"Construction and demolition debris"** means discarded materials generally considered to be not water-soluble and nonhazardous in nature, including, but not limited to, steel, glass, brick, concrete, asphalt roofing material, pipe, gypsum wallboard, and lumber, from the construction or destruction of a structure as part of a construction or demolition project or from the renovation of a structure,

## C&D Definition (cont.)

and including rocks, soils, tree remains, trees, and other vegetative matter that normally results from land clearing or land development operations for a construction project, including such debris from construction of structures at a site remote from the construction or demolition project site.

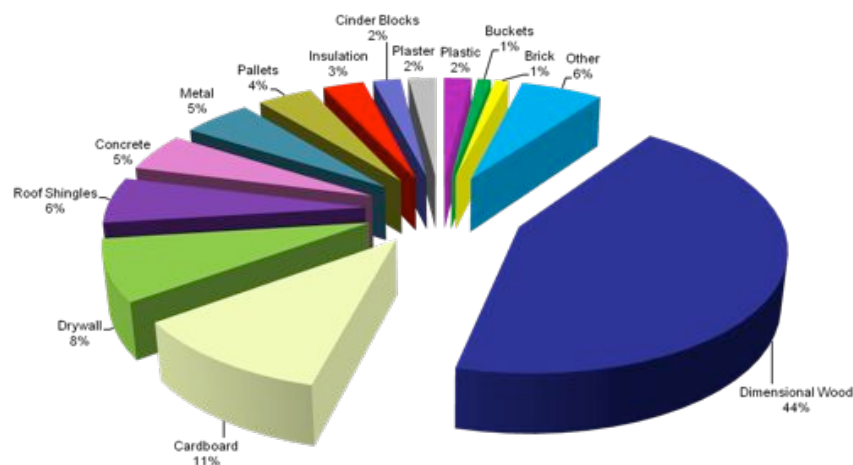
## C&D Definition (cont.)

Mixing of construction and demolition debris with other types of solid waste will cause it to be classified as other than construction and demolition debris. The term also includes :

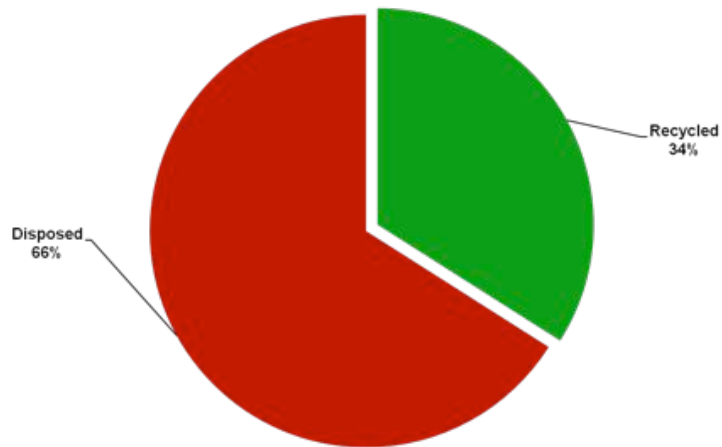
Clean cardboard, paper, plastic, wood, and metal scraps from a construction project.

## FL C&D Debris Composition

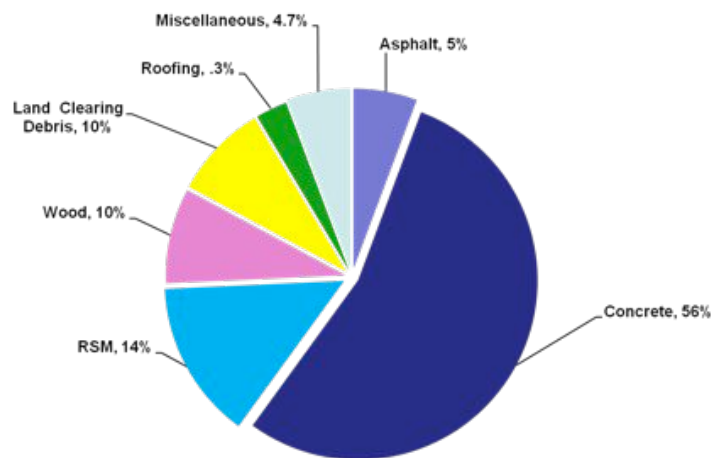
(by volume based on 171 loads of C&D Debris)



## C&D Recycled vs. Disposed (2006)



## C&D Recycled Composition (2006)



## **Building Related Debris**

- Wood
- Concrete
- Brick
- Roofing
- Drywall
- Misc – Paper, Plastics, and metals



## **Transportation Derived Debris**

- Concrete
- Asphalt

### Sources

- Roadways
- Curbs
- Sidewalks
- Bridges

## **Land Clearing Debris**

- Root Balls
- Tree Trunks
- Brush
- Rocks
- Soils



## WASTE PROCESSING FACILITY TYPES

- **C&D Landfills - 80**
- **C&D Transfer Station - 16**
- **C&D MRF's (Material Recovery Facility) – 25**

### C&D Landfill







## C&D Transfer Station



## C&D MRF



## C&D MRF



## CLEAN DEBRIS

**62.701.200(15) "Clean debris" means any solid waste which is virtually inert and which is not a pollution threat to groundwater or surface waters and is not a fire hazard and which is likely to retain its physical and chemical structure under expected conditions of disposal or use. The term includes uncontaminated concrete, including embedded pipe or steel, brick, glass, ceramics, and other wastes designated by the department.**

## Clean Debris

- Concrete
- Brick
- Glass
- Ceraemics
- Other Materials as designated
- Clean Debris Processors are **NOT** required to have a FDEP Solid Waste permit but may be required to have an air permit.





## **Recovered C&D Debris Uses**

- Crushed Concrete - road construction/drainage
- Concrete & other clean debris – fill
- Wood chips:
  - Fuel for con-gen plants & industrial boilers
  - Engineered wood
  - Mulch
  - Compost bulking agents
  - Animal bedding
- Tree trunks – saw into planks and lumber
- RSM (Recovered Screen Materials)– daily cover

## **Other C&D Debris to Recycle**

- Corrugated Cardboard
- Metals (aluminum, steel)
- Plastic (buckets)

## **How to Increase C&D Recycling (Local Government)**

- Open Market for C&D Debris Collection
- Roll-Off box permits, but no franchise
- Non-exclusive Commercial franchises
- Separate non-exclusive C&D franchises
- Fast track permitting requiring recycling

## How to Increase C&D Recycling (State Government)

- Enact a Recovered C& D Materials bill
- Exclude C&D collection from local franchises
- Require C&D Debris to be processed prior to disposal
- Landfill bans
- Landfill disposal fee

**QUESTIONS?**

