

5th Atlantic Alliance Symposium Leesburg, Virginia



September 25-26, 2008

Metal and Nonmetal Mines 2008

➤ Metal & Nonmetal Mines	12,566
Surface Mines	11,889
Underground Mines	248
Facilities	429
➤ Mandated Inspections	17,899

Mine Industry Employment 2007

➤ Metal & Nonmetal Miners	187,343
➤ Hours reported	365,211,578
➤ Contractors	5,400
➤ Contractor Employees	67,844

MSHA

Metal & Nonmetal Workforce

Employees	588
District offices	6
Field offices	46
Authorized Representatives	329
Inspector trainees	65

Coal Mines - 2008

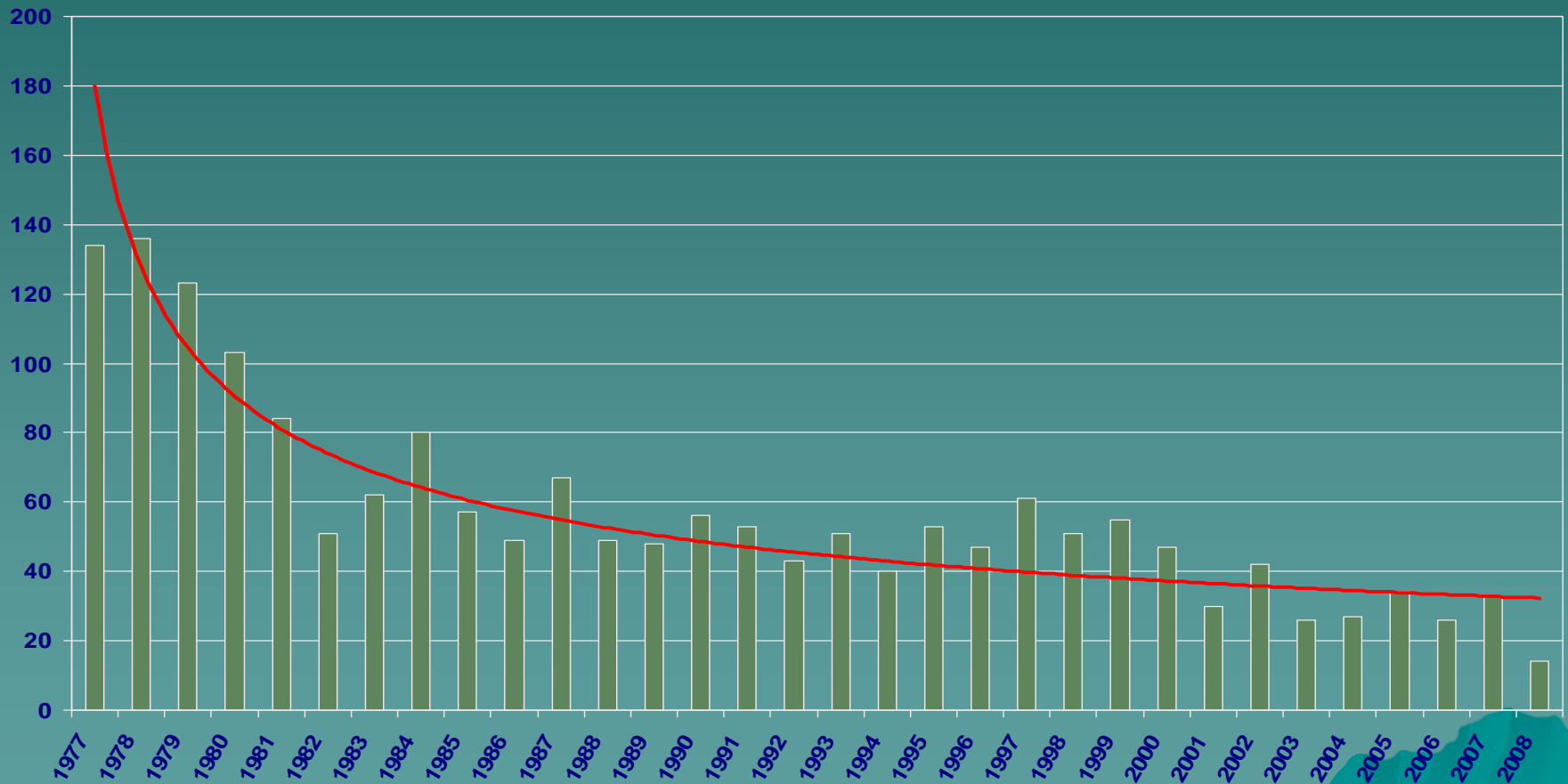
➤ Coal Mines:	2394
Underground Mines	732
Facilities	531
Surface Mines	1131
➤ Coal Miners	84,071

Metal & Nonmetal Mining Operations

<u>Commodity</u>	<u># Mines</u>	<u>Operations</u>
Construction Sand & Gravel	6452	51%
Crushed, Broken Limestone	1952	15%
Crushed, Broken Stone	766	
Dimension Stone	389	
Crushed, Broken Granite	303	
Sand, Common	214	
Sand, Industrial	176	
Common Clays	170	
Crushed, Broken Sandstone	161	
Dimension Sandstone	154	
Crushed, Broken Traprock	145	
Dimension Limestone	140	
Gold Ore	133	
Cement	115	

Metal and Nonmetal Fatalities

***15 Fatalities YTD in 2008**



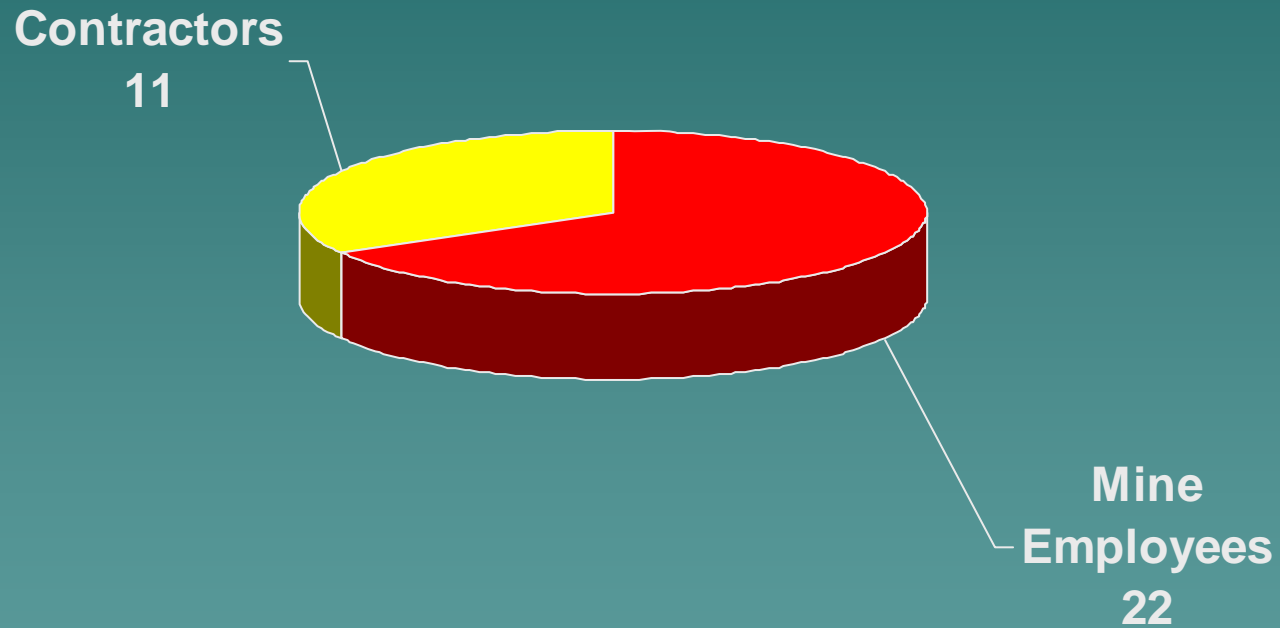
Metal & Nonmetal Fatality Rates

Year	Rate	# Fatalities
◆ 2000	.0216	47
◆ 2001	.0145	30
◆ 2002	.0220	42
◆ 2003	.0136	26
◆ 2004	.0137	27
◆ 2005	.0170	34
◆ 2006	.0122	26
◆ 2007	.0149	33
◆ 2008	-----	15

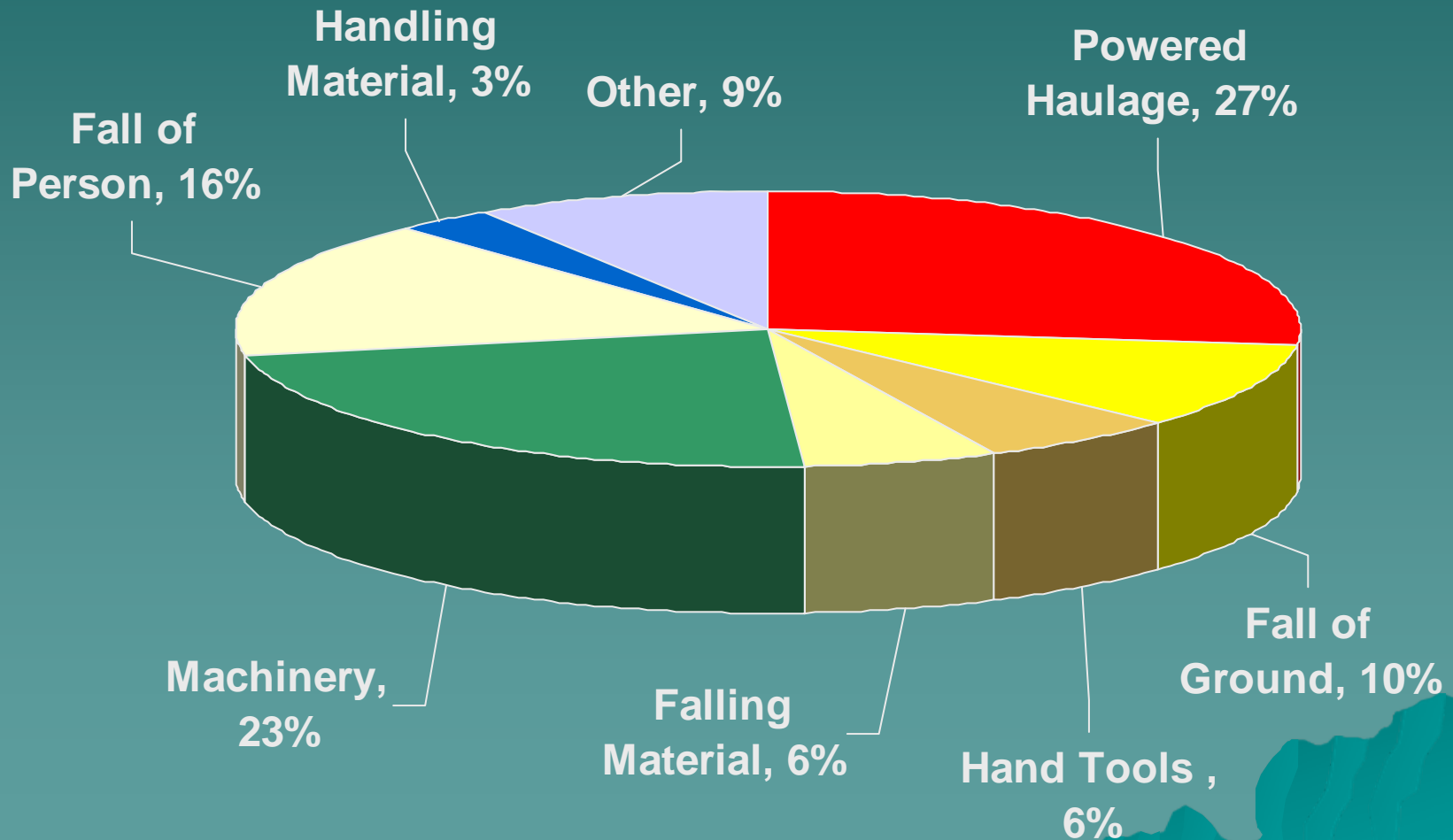
Fatality Root Causes

- ◆ Risk Assessment Not Conducted
- ◆ Inadequate Policies, Procedures, Controls
- ◆ Failure to use Personal Protective Equipment
- ◆ Lack of Pre-operation Checks
- ◆ Equipment not Maintained
- ◆ Training Inadequate

2007 MNM Fatalities



MNM Fatalities by Classification 2007



MNM-All-Injury Rate

Year	Rate
➤ 2000	4.45
➤ 2001	4.10
➤ 2002	3.86
➤ 2003	3.65
➤ 2004	3.55
➤ 2005	3.54
➤ 2006	3.19
➤ 2007	3.02
➤ 2008	-----

MNM-Nonfatal Days Lost Rate

Year	Rate
➤ 2000	2.83
➤ 2001	2.62
➤ 2002	2.55
➤ 2003	2.43
➤ 2004	2.33
➤ 2005	2.31
➤ 2006	2.08
➤ 2007	1.98
➤ 2008	-----

Significant Mine Accidents

- 2006 Sago WV-Jan. 11
- 2006 Aracoma WV-Jan. 2
- 2006 Darby KY-May 5

- 2007 Crandall Canyon UT 9

MINER Act of 2006

The Mine Improvement and New Emergency Response Act of 2006, also known as the MINER Act, was signed by President George W. Bush on June 15, 2006.

This legislation, the most significant mine safety legislation in 30 years, amended the Federal Mine Safety and Health Act of 1977 and contains a number of provisions to improve safety and health in America's mines.



MINER Act of 2006

(continued)

- Required all mine operators to notify MSHA of all incidents/accidents which pose a reasonable risk of death within 15 minutes;
- Established a competitive grant program for new mine safety technology to be administered by NIOSH;
- Established an interagency working group to provide a formal means of sharing non-classified technology that would have applicability to mine safety;
- Raised the criminal penalty cap to \$250,000 for first offenses and \$500,000 for second offenses, as well as establishing a maximum civil penalty of \$220,000 for flagrant violations;

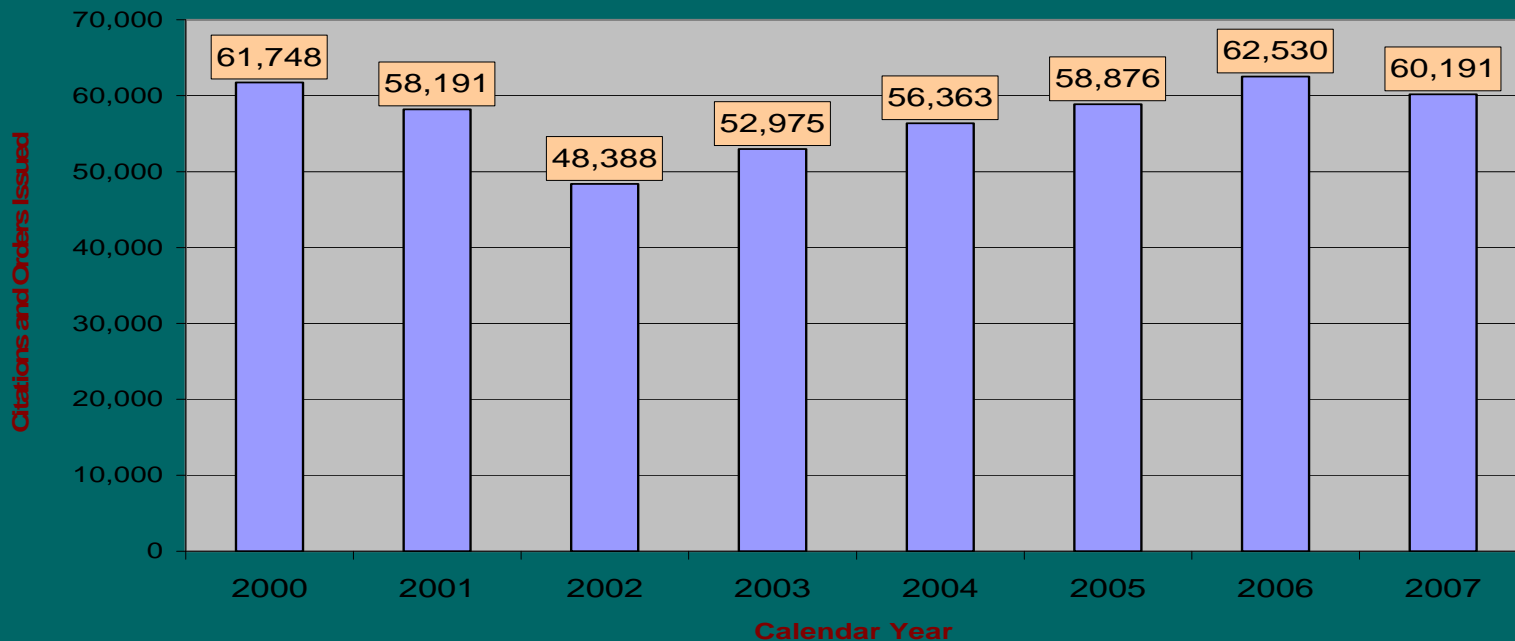
MINER Act of 2006

(continued)

- Gave MSHA the power to request an injunction (shutting down a mine) in cases where the mine has refused to pay a final order MSHA penalty;
- Created a scholarship program available to miners and those who wish to become miners and MSHA enforcement staff;
- Established the Brookwood-Sago Mine Safety Grants program to provide training grants to better identify, avoid and prevent unsafe working conditions in and around the mines.

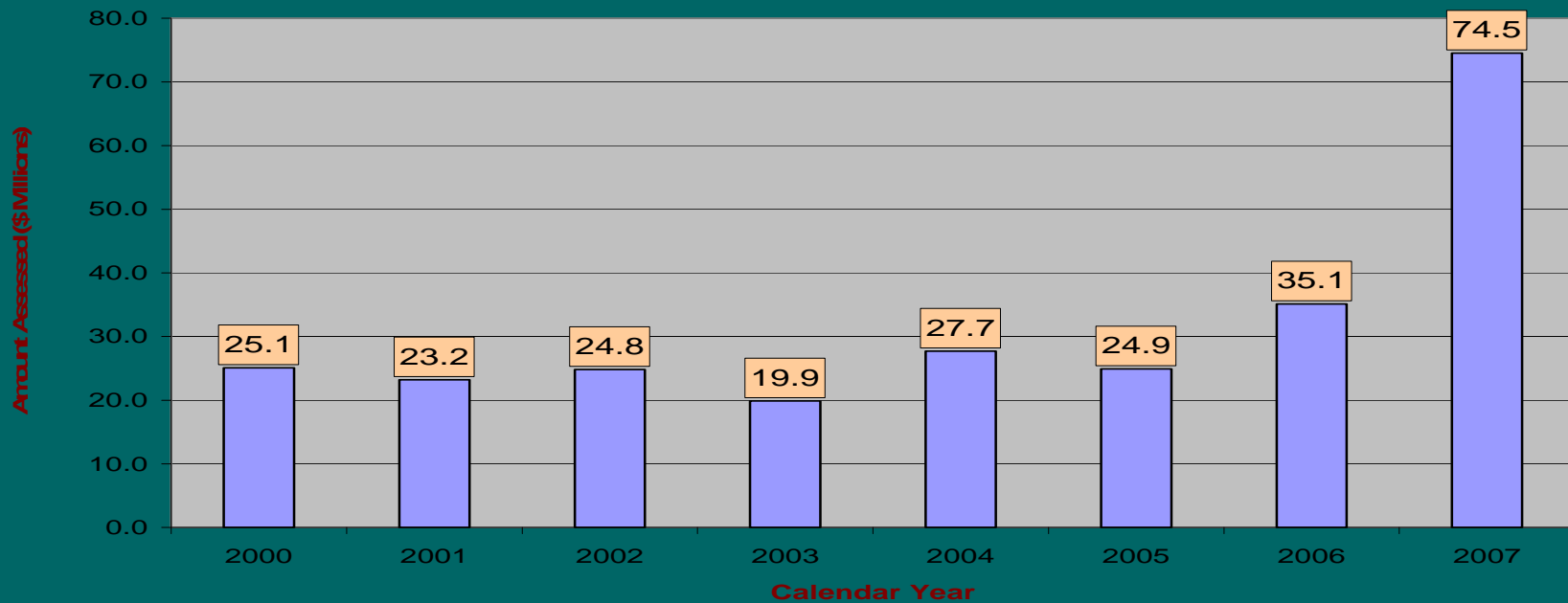
Total Citations and Orders Issued For Metal and Nonmetal Mines CY 2000 – CY 2007

**M/NM - Citations and Orders Issued
CY 2000 - 2007**

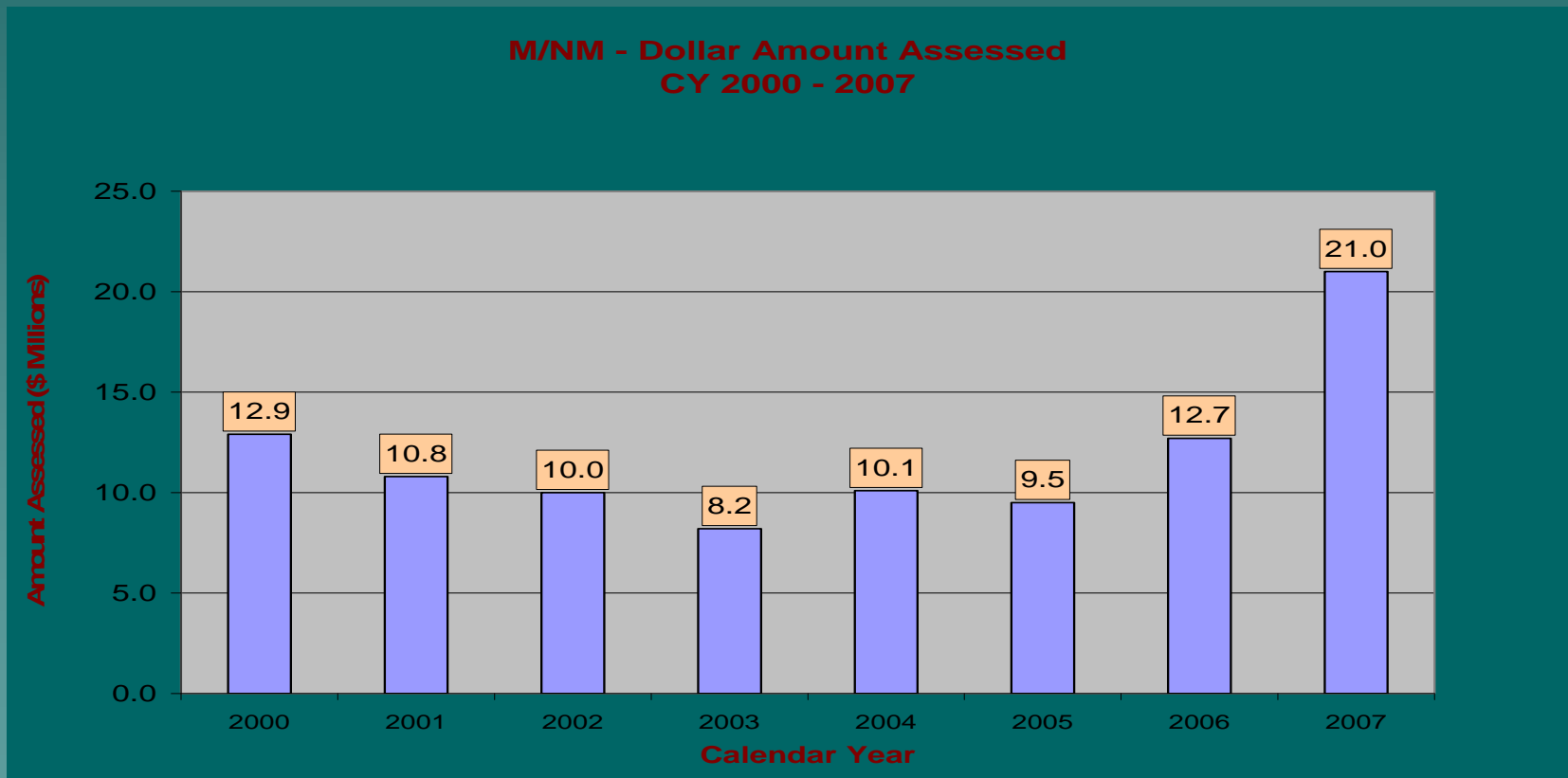


Total Dollar Amount Assessed Coal and MNM Mines CY 2000 – CY 2007

All MSHA - Dollar Amount Assessed
CY 2000 - 2007



Total Dollar Amount Assessed Metal and Nonmetal Mines CY 2000 – CY 2007



MNM-2008 YTD

- **Number of Citations** **58,678**
- **Penalty Amount Assessed** **\$ 31.1M**

◆ **Comprehensive Enforcement -- 100% Program**

- Last October, MSHA's new 100 Percent Inspection Plan was announced. It included temporary reassignment of MSHA inspectors to areas where they were most needed and provided for increased overtime hours until all new inspector trainees were fully qualified.

◆ **Pattern of Violations Program**

- MSHA developed a database and computer screening process to identify mines that may have a Pattern of Violations of mandatory standards that could significantly and substantially contribute to serious mining accidents or injuries.

New Regulations

- **Asbestos PEL lowered to 0.1 f/cc**
- **Diesel Particulate Matter in Underground Mines - 160 micrograms**
- **Substance Abuse - Proposed Rule**



New Alliances

- ◆ Assoc. of Equipment Manufacturers
 - Develop new ways to convey hazard warnings
 - Data mining for accident information
 - Share with AEM's Earthmoving and Mining Council
 - Distribute information on recognizing and preventing equipment hazards
 - Develop and disseminate training materials
 - Develop and disseminate Best Practices

Pending New Alliance

- ◆ Portland Cement Association (PCA)
 - Training and Education
 - Coal firing for cement plants
 - Reducing VPIH
 - Outreach and Communication
 - Data mining on injuries and illnesses
 - Technical Assistance
 - Hexavalent Chromium
 - Promote National Dialogue

Our Ultimate Measure of Success

