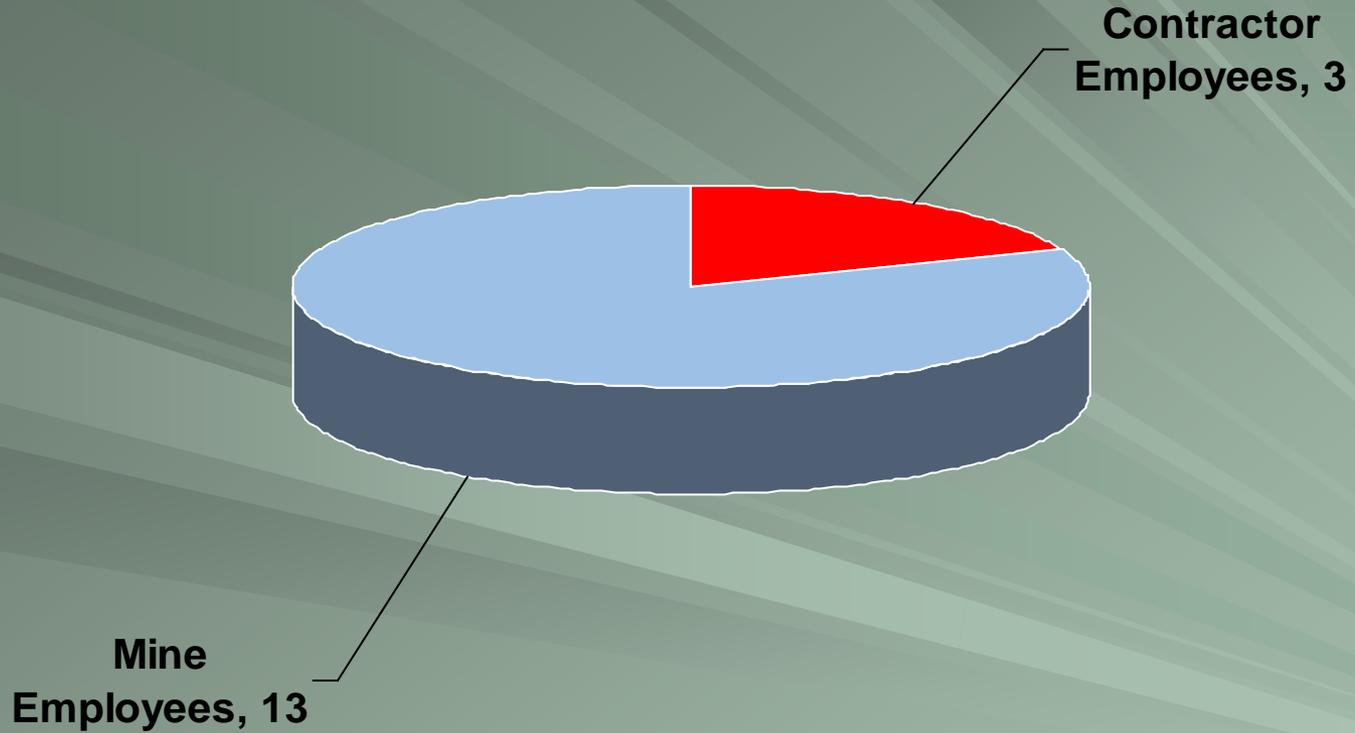
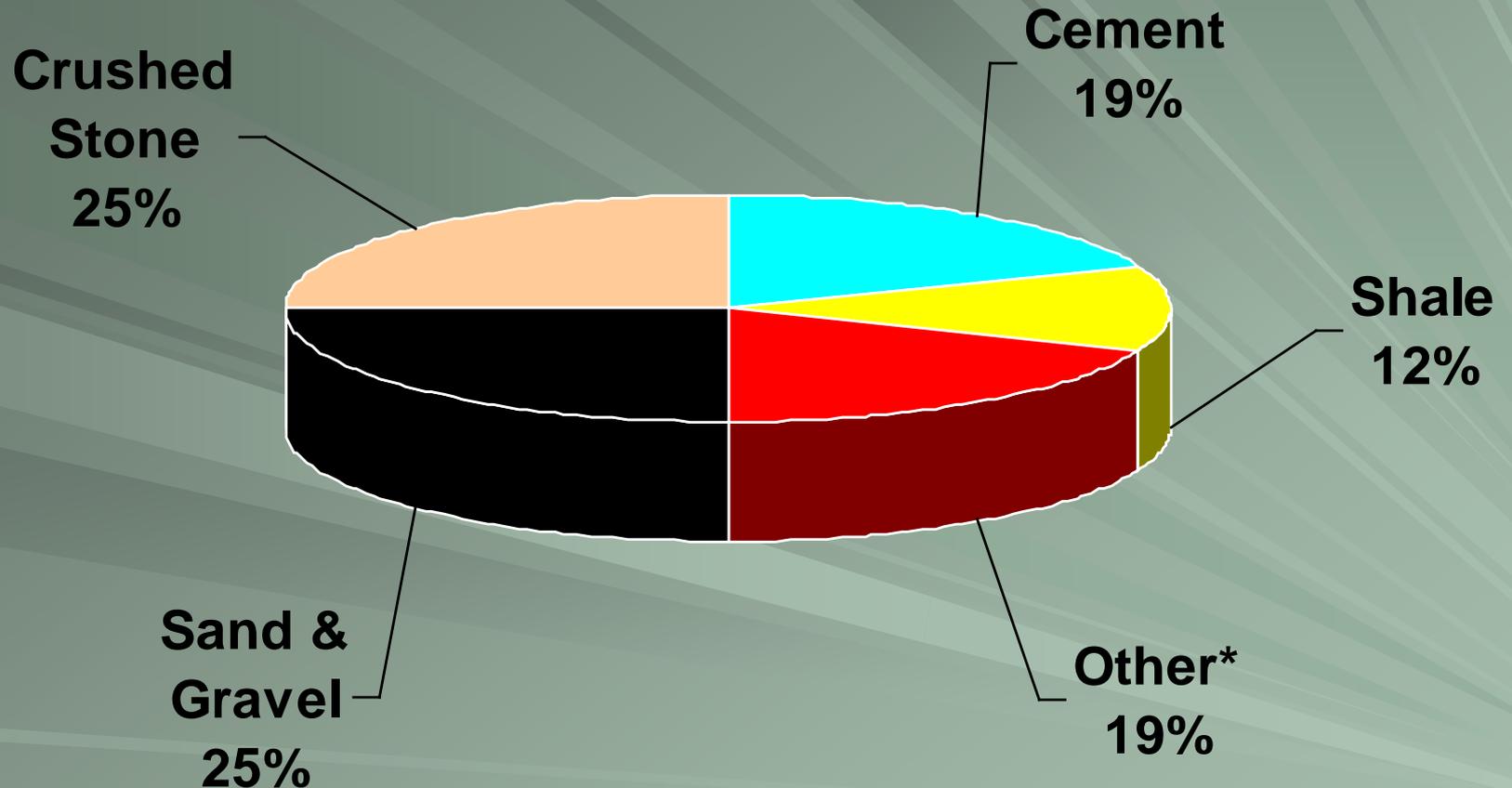


**Metal and Nonmetal  
Fatal Accident Review  
CY - 2012**

# MNM Fatalities

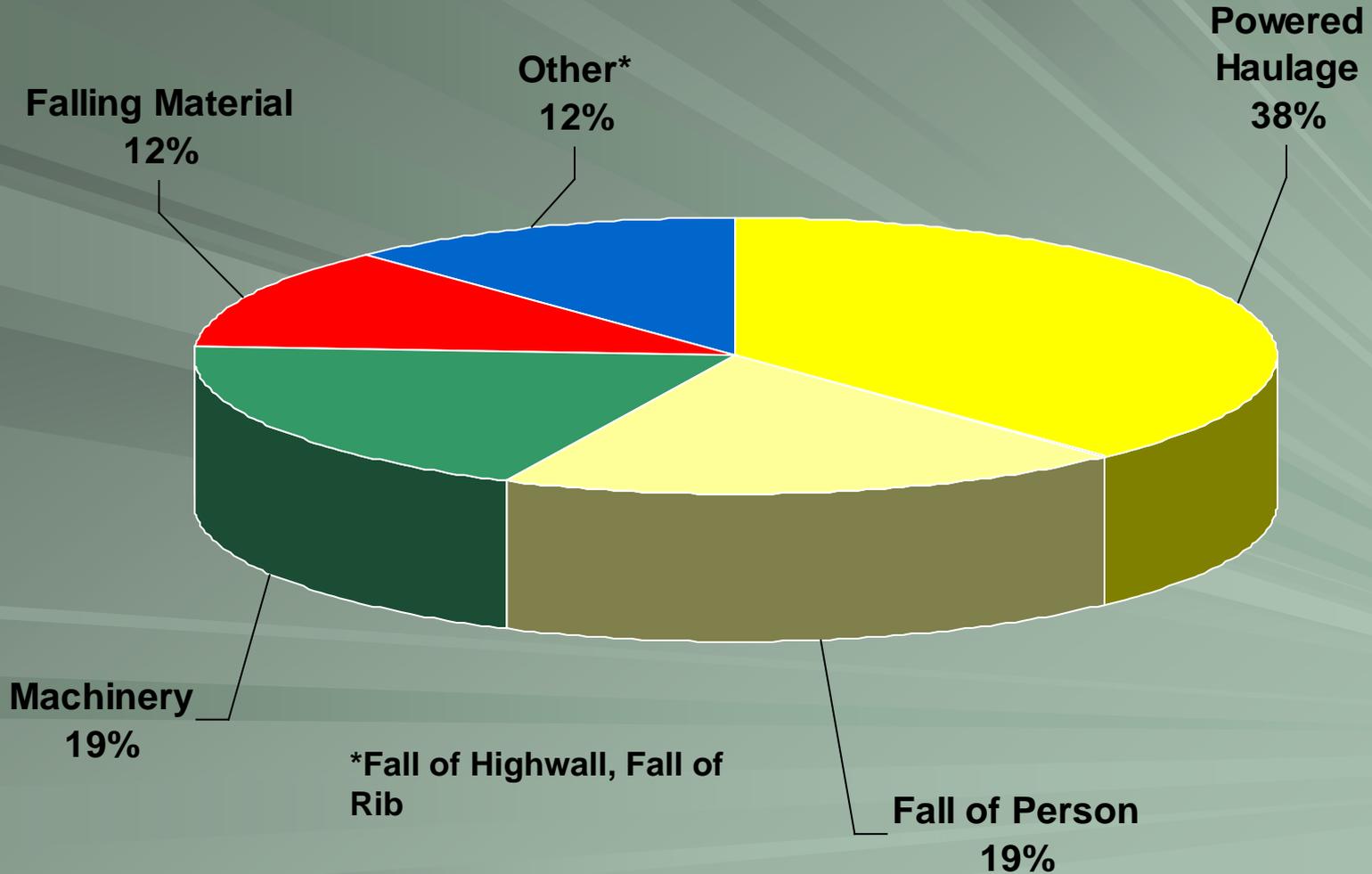


# MNM Fatalities by Commodity

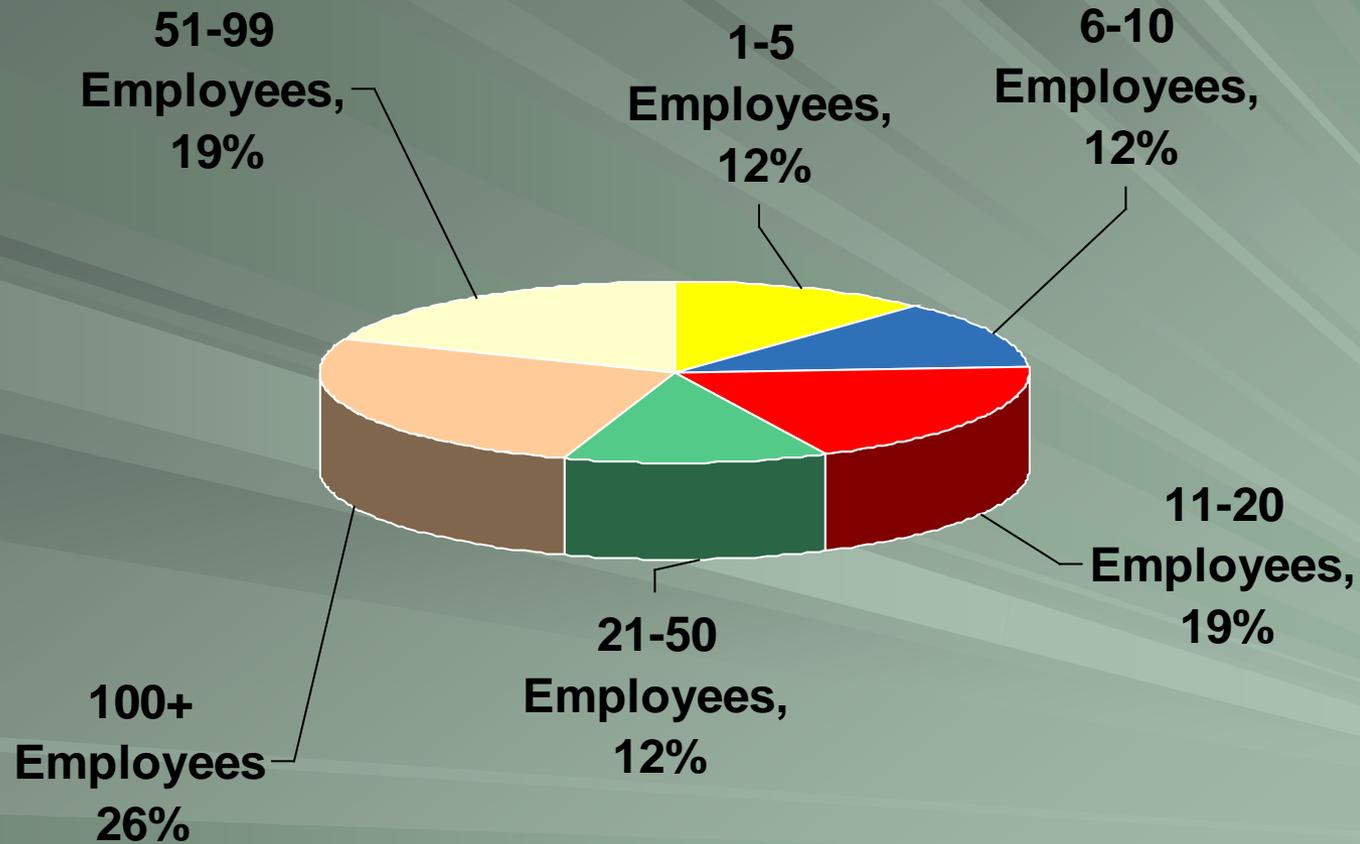


\* Gemstone, Gold, Copper

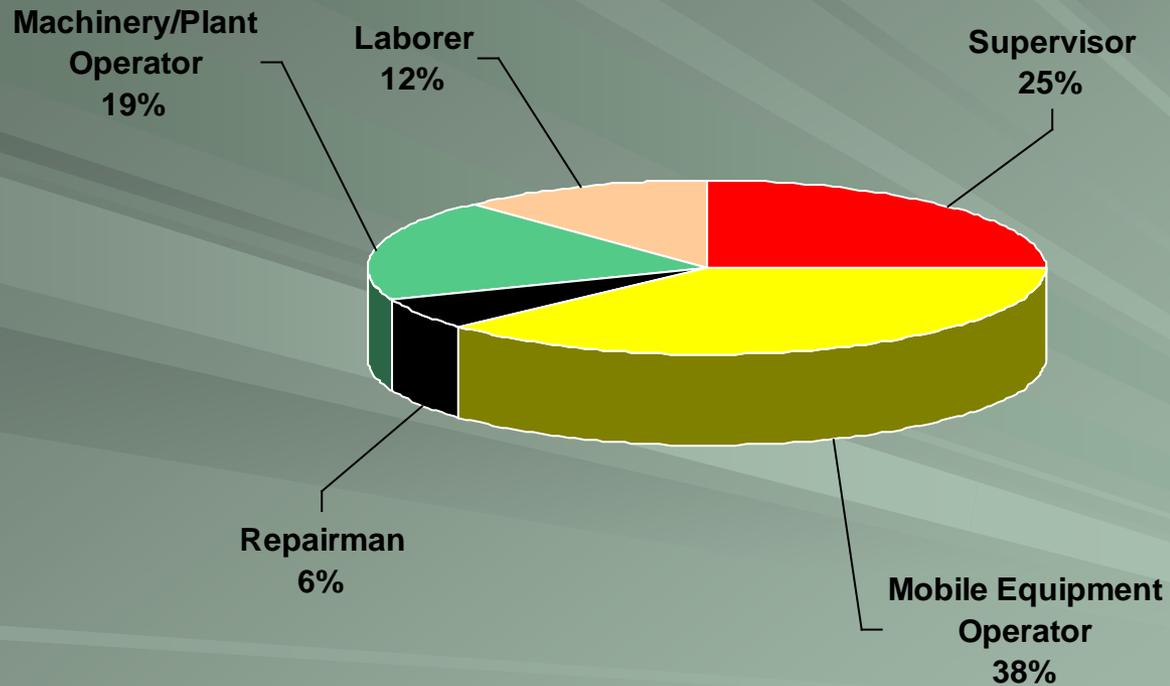
# MNM Fatalities by Classification



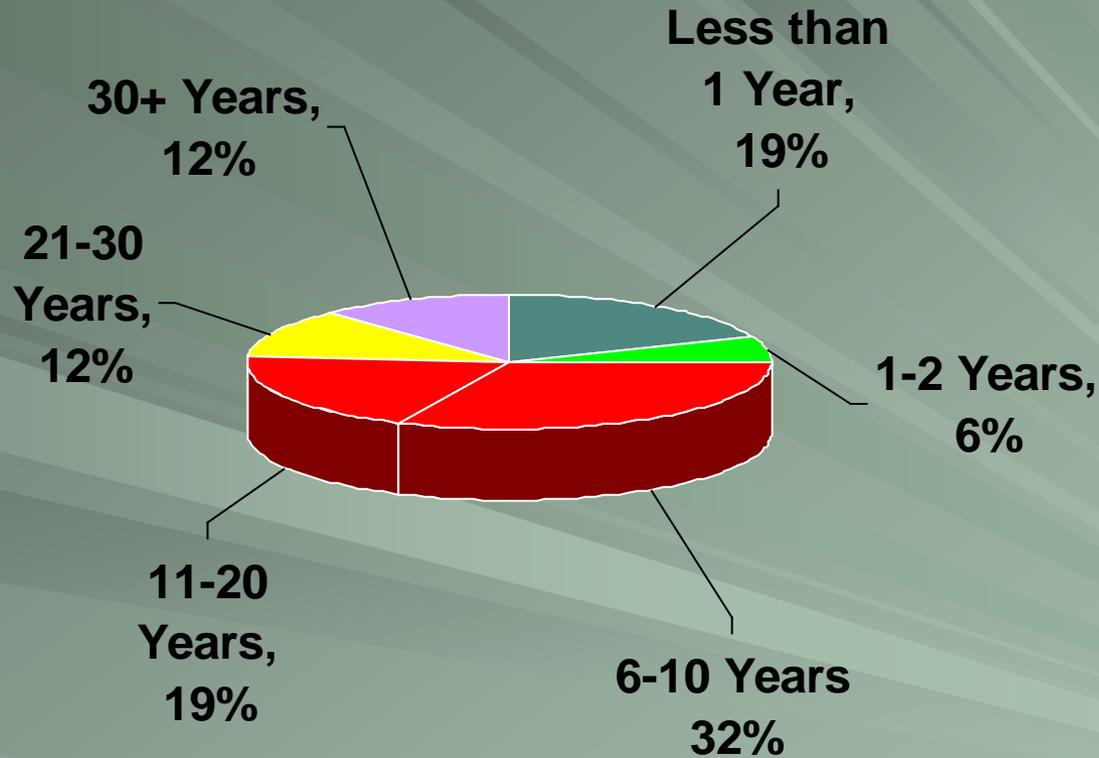
# MNM Fatalities by Mine Size



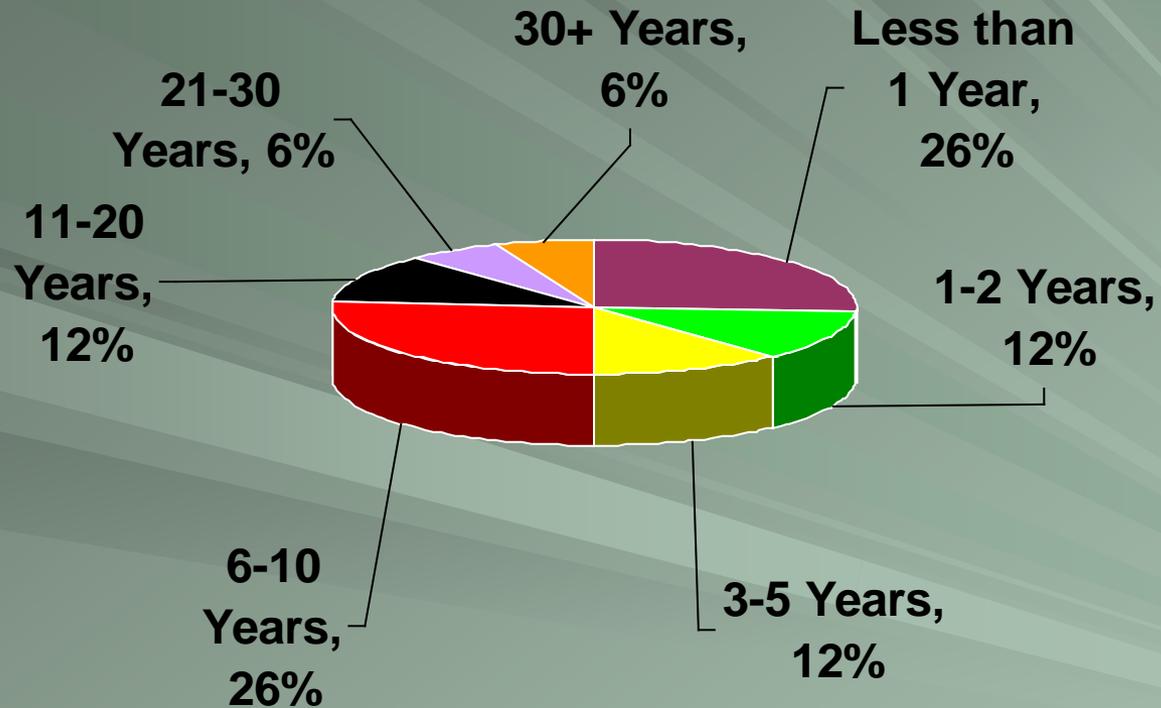
# MNM Fatalities by Occupation



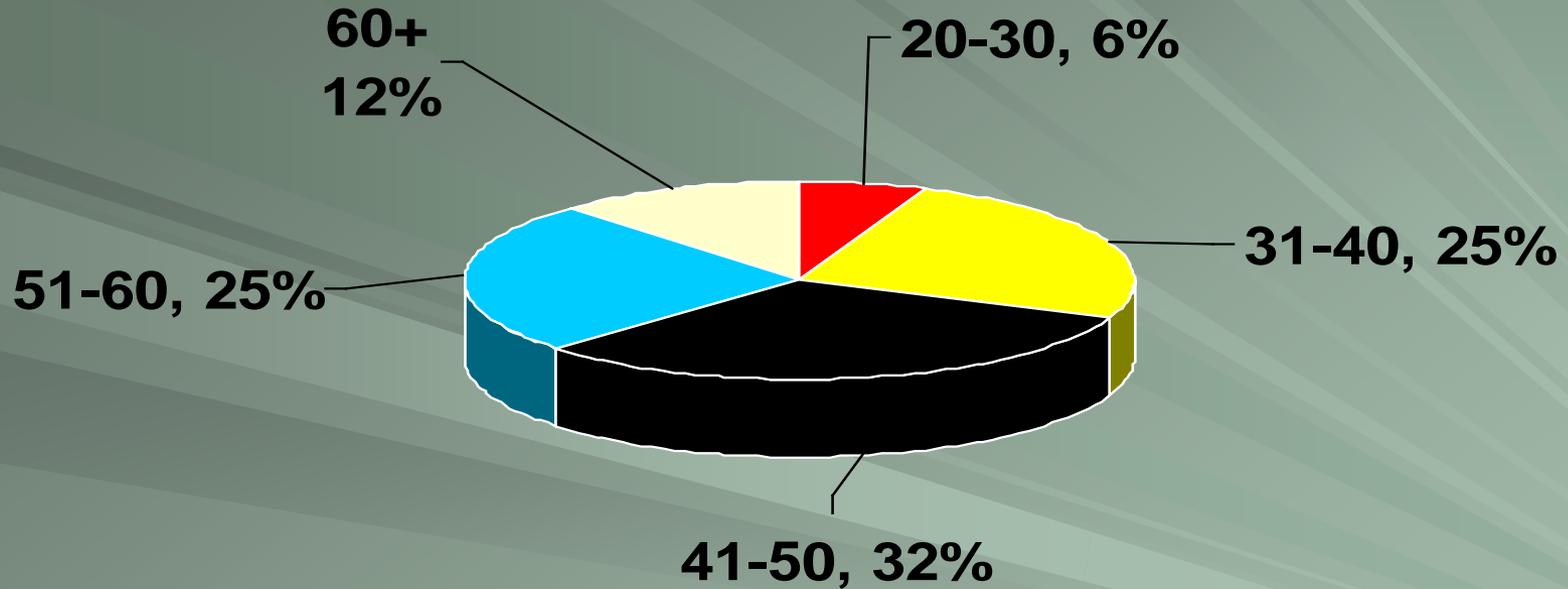
# MNM Fatalities by Total Experience



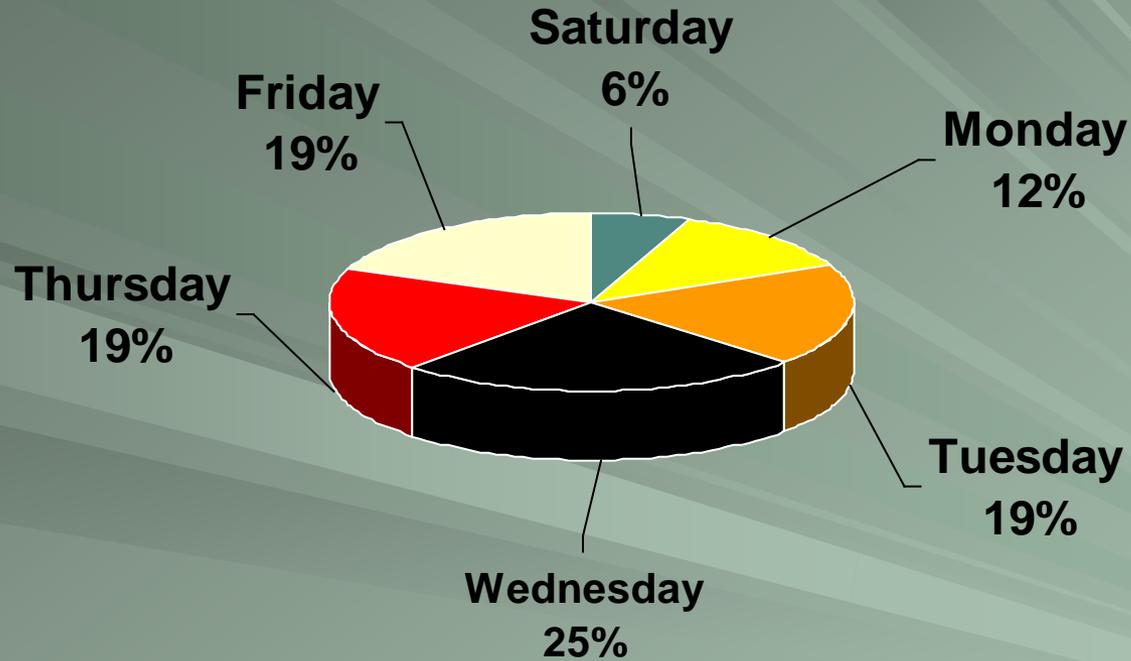
# MNM Fatalities by Job Experience



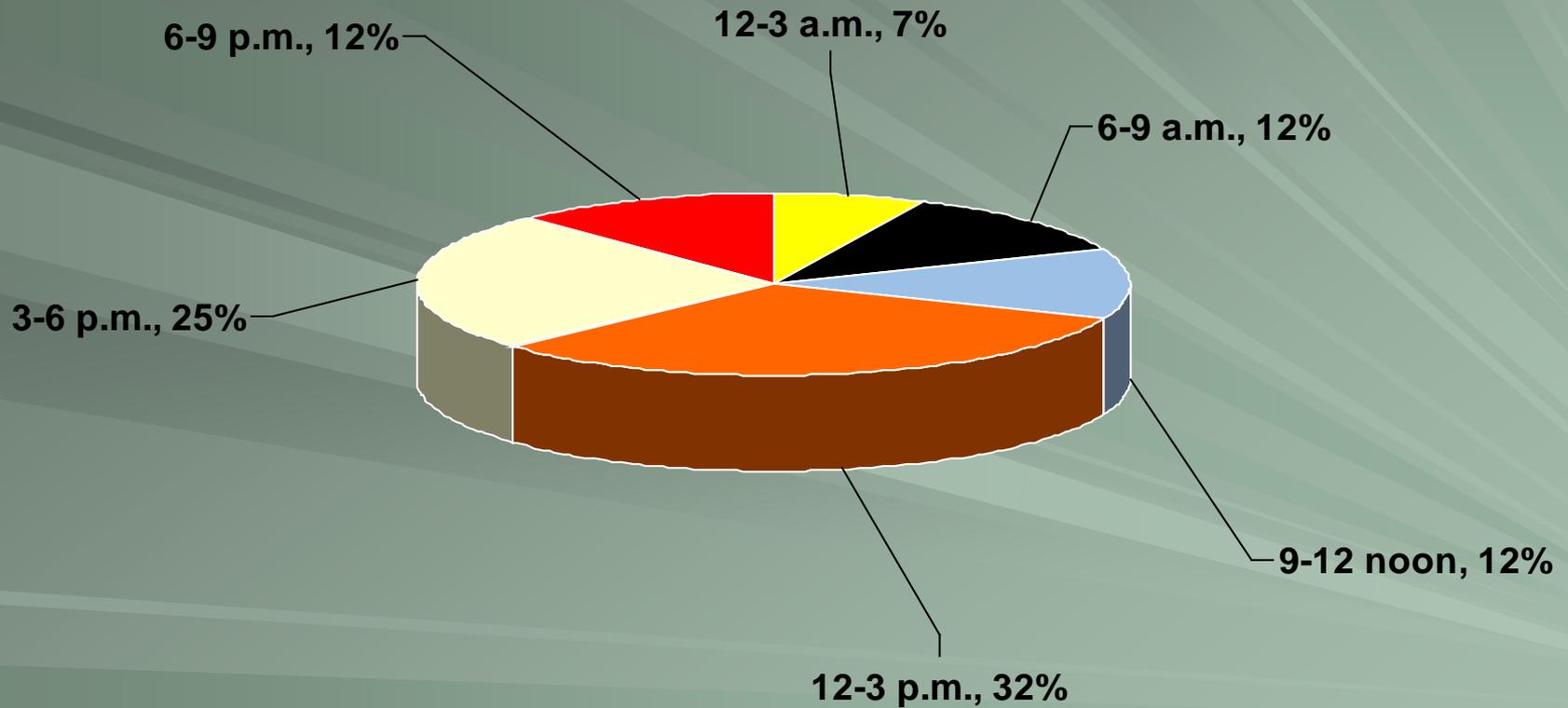
# MNM Fatalities by Age



# MNM Fatalities by Day of Week



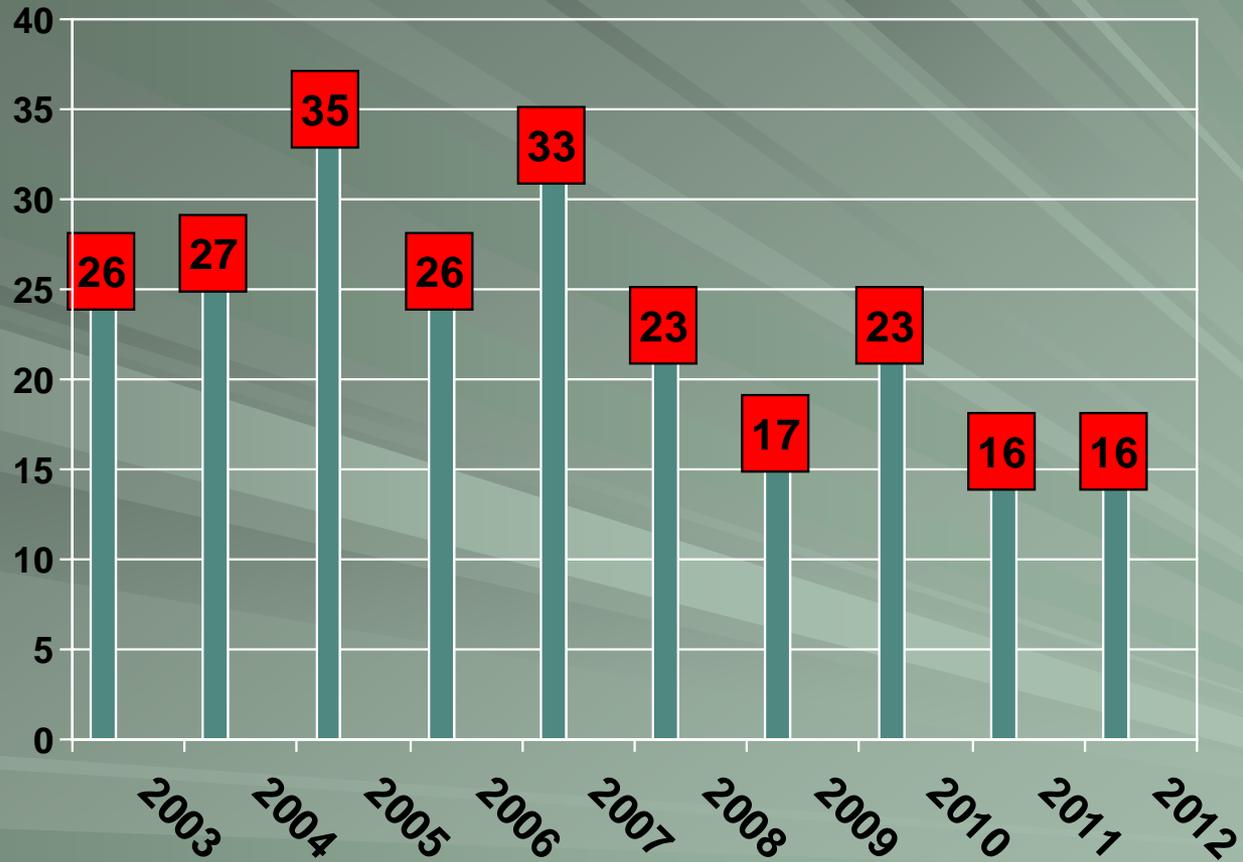
# MNM Fatalities by Hour of Day



# Root Causes

- **Failure to**
  - **Provide Task Training**
  - **Conduct Examinations**
  - **Conduct Risk Assessment**
  - **Provide Policies, Procedures, Controls**
  - **Provide Personal Protective Equipment**
  - **Conduct Pre-operation Checks**
  - **Maintain Equipment**

# MNM Fatalities – 2003-2012



# MNM Fatalities---Supervisors

2012	4
2011	1
2010	2
2009	1
2008	2
2007	4
2006	2
2005	2
2004	6
2003	9
<b>Total</b>	<b>33</b>

# Powered Haulage

Year	'08	'09	'10	'11	'12
Fatals	5	5	7	4	6

**--Includes Mobile Equipment and Belt Conveyors**



# Powered Haulage-- Mobile Equipment

- Maintain mobile equipment
- Always wear a seat belt
- Be aware of the location and traffic patterns of mobile equipment in your work area
- Sound the horn to warn persons of intended movement



# Powered Haulage -- Belt Conveyors

- Deenergize and block belt conveyors against motion before starting the task
- Lock-out/tag-out all energy sources to belt conveyors before working on them.
- Maintain communications with all persons performing the task



# Electrical

Year	'08	'09	'10	'11	'12
Fatals	2	1	1	1	0

- MCC fires / explosions
- Deenergize
- Lockout/Tagout
- Power line clearance
- Monitor Contractors



# Machinery

Year	'08	'09	'10	'11	'12
Fatals	3	4	3	3	3

- Inspect equipment before placing it in operation
- Identify and control all hazards
- Block equipment against motion



# Fall of Roof, Back, Ribs

Year	'08	'09	'10	'11	'12
Fatals	3	1	2	2	1

- Examine and test for loose ground
- Design, install, and maintain a support system to control the ground in places where persons work or travel in performing their assigned tasks
- Take down or support ground conditions that create a hazard.



# Slip/Fall of Person

Year	'08	'09	'10	'11	'12
Fatals	4	2	1	3	3

- Always use PPE
- Eliminate Hazards
- Protect Openings
  - Substantial Covers
  - Barricades & Warning Signs





U.S. Department of Labor

**Make the  
RIGHT Decision**

Mine Safety and Health Administration