

MSHA's 15 / 50

Injury Rate Reduction Goals



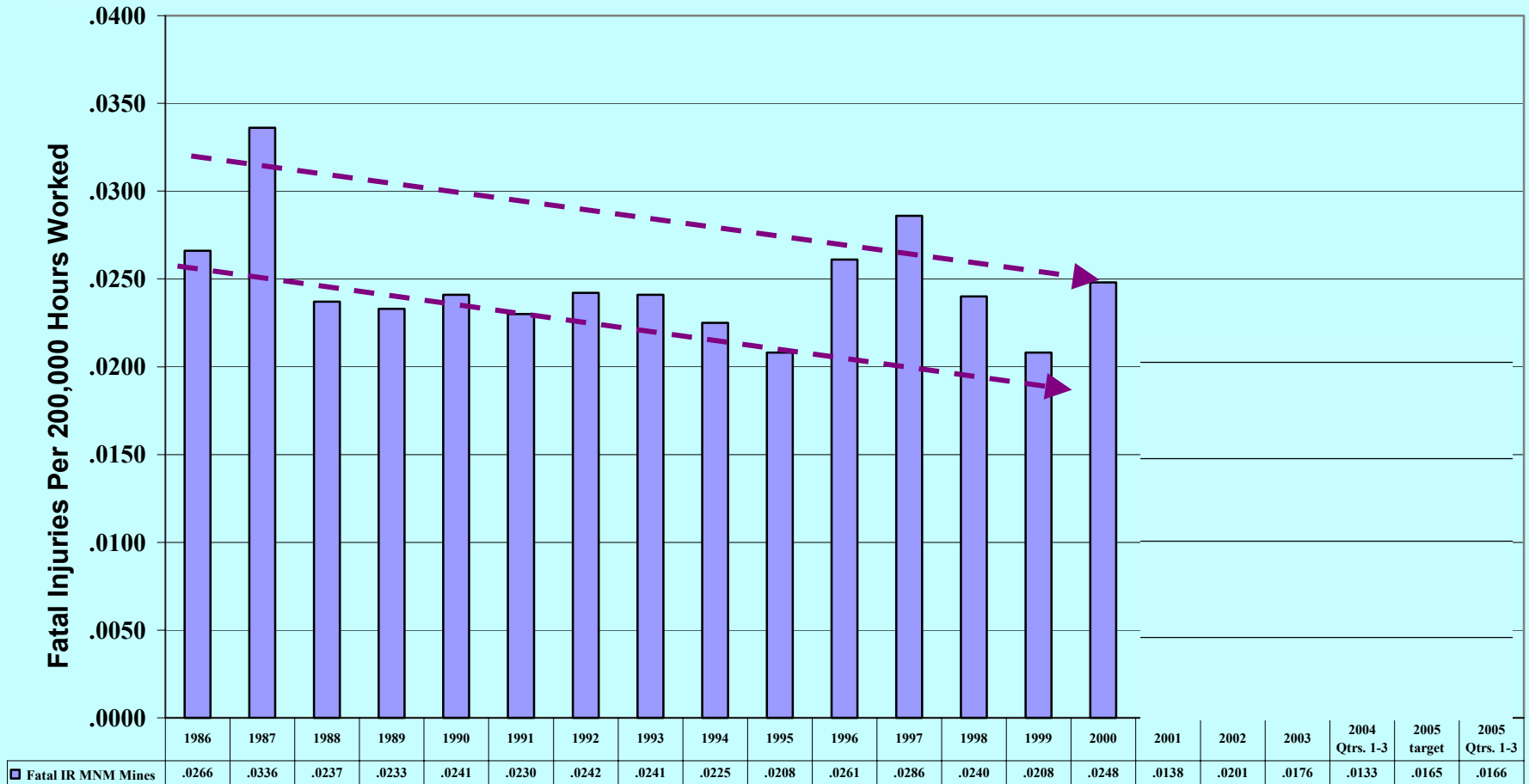
**United States Department of Labor
Mine Safety and Health Administration**



Goals Established in 2001

- Based on FY 2000 Statistics
- Target FY 2008, with annual milestones
- **Fatal Injuries Rate: 15% Decrease**
- **All-Injury Rate: 50% Decrease**
- Fatal Injury Target Refined in 2004
 - Set a more ambitious goal
 - Aimed for lower edge of fatal trend band

Fatal Injury Rate 1986 - 2000

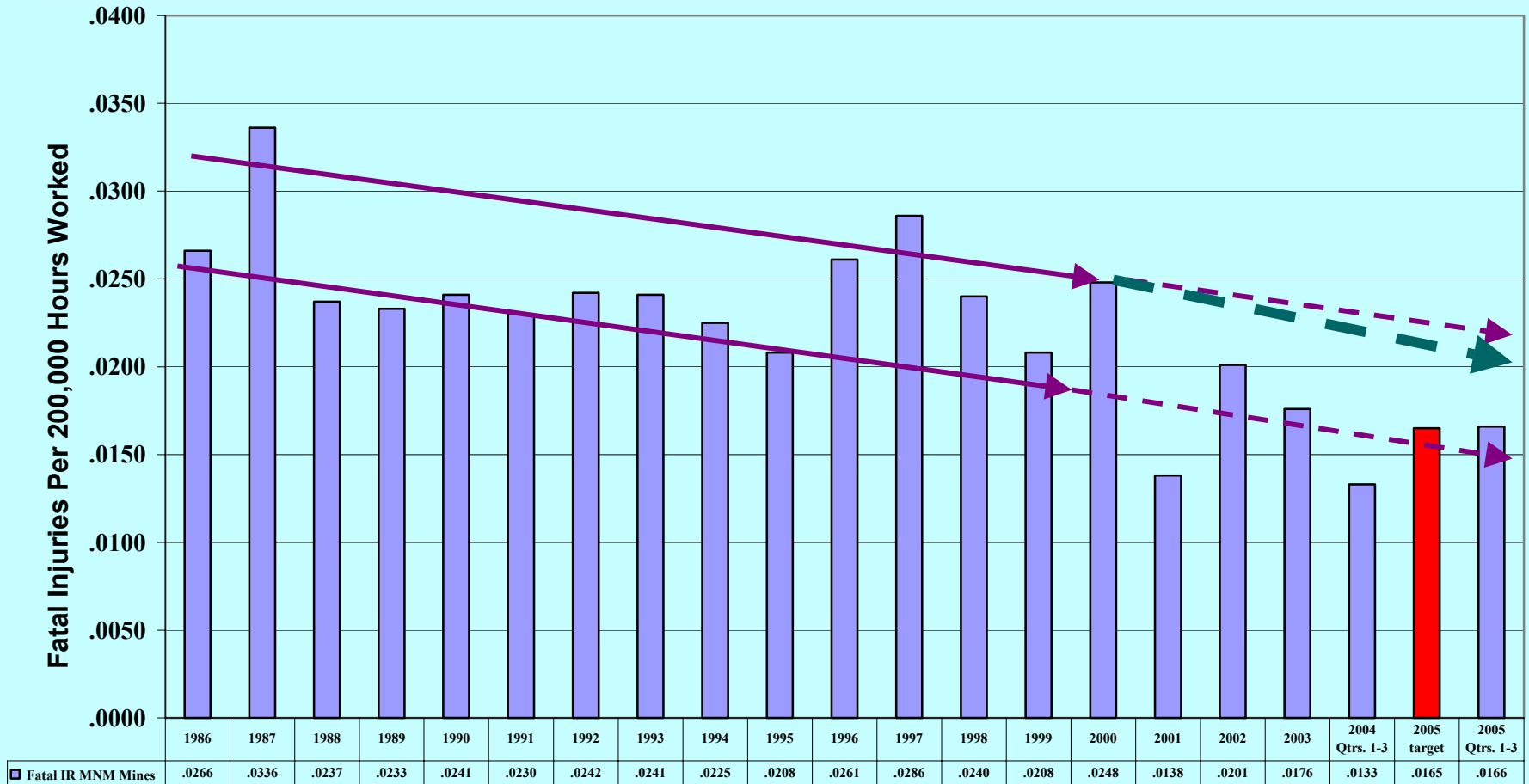


↑
2000

Safety and Health are Values



Fatal Injury Rate 1986 - 2005

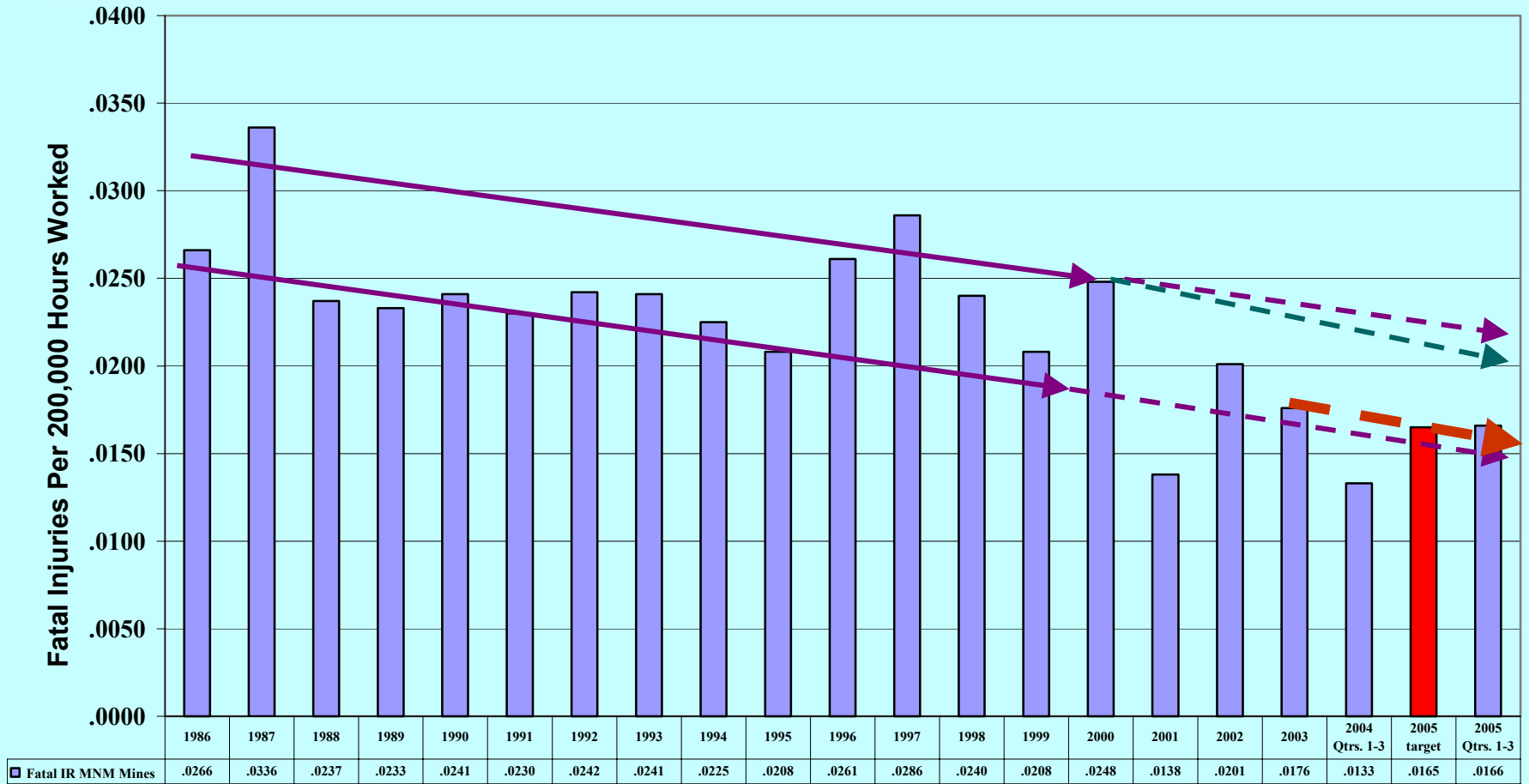


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Safety and Health are Values



Fatal Injury Rate 1986 - 2005



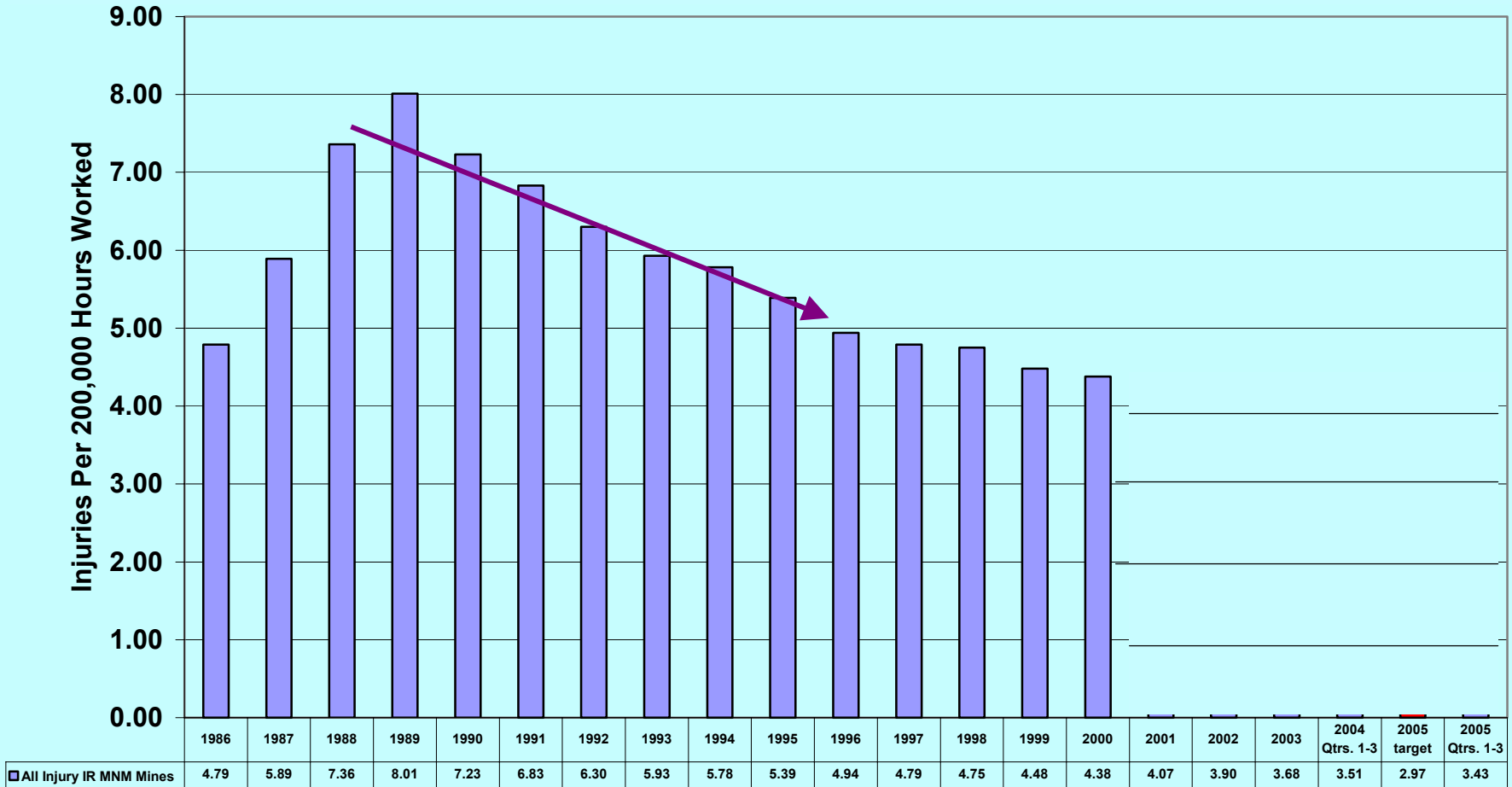
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Safety and Health are Values

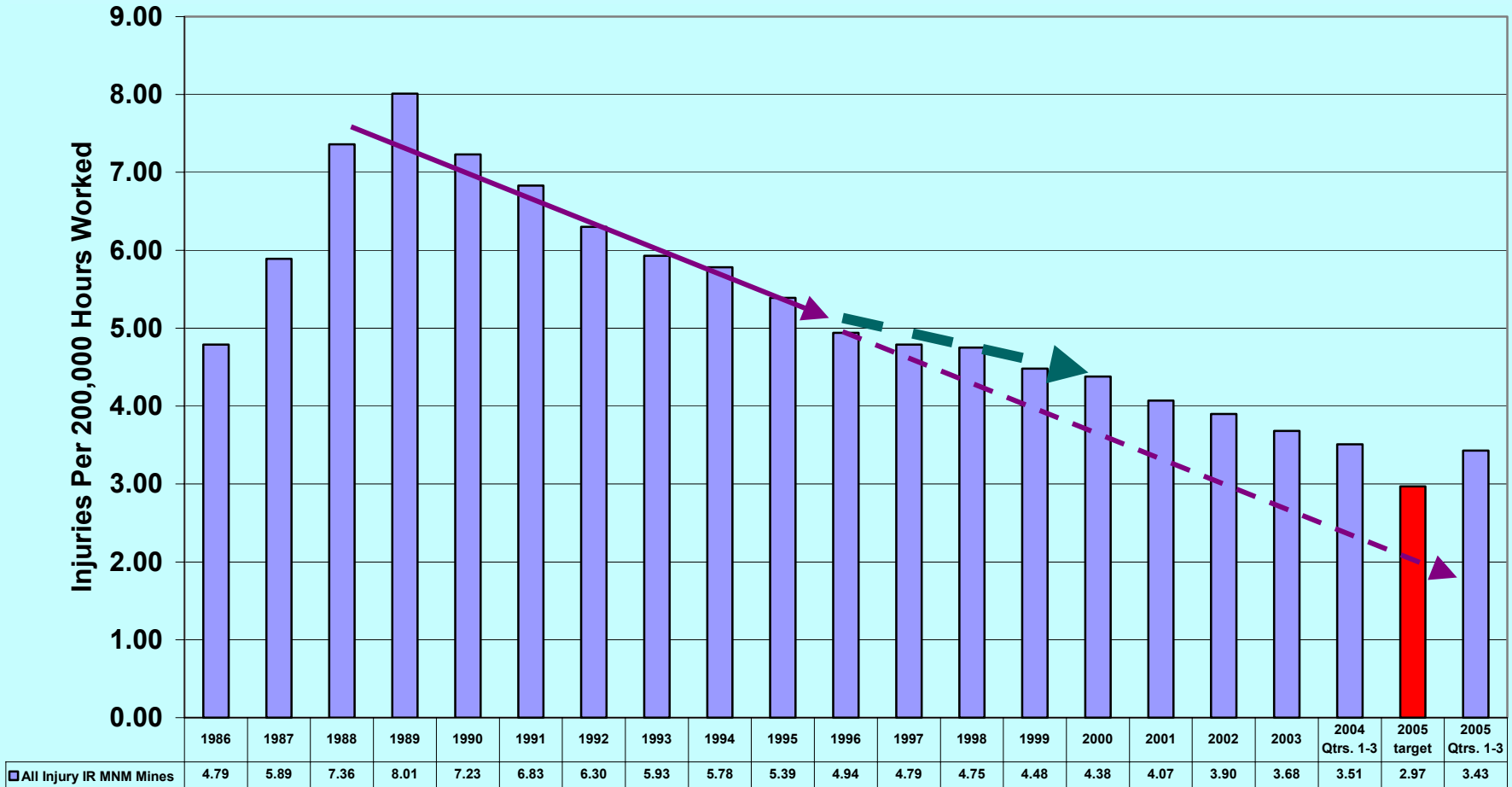
All-Injury Rate 1986 - 2000



↑
1988

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1996

All-Injury Rate 1986 - 2005

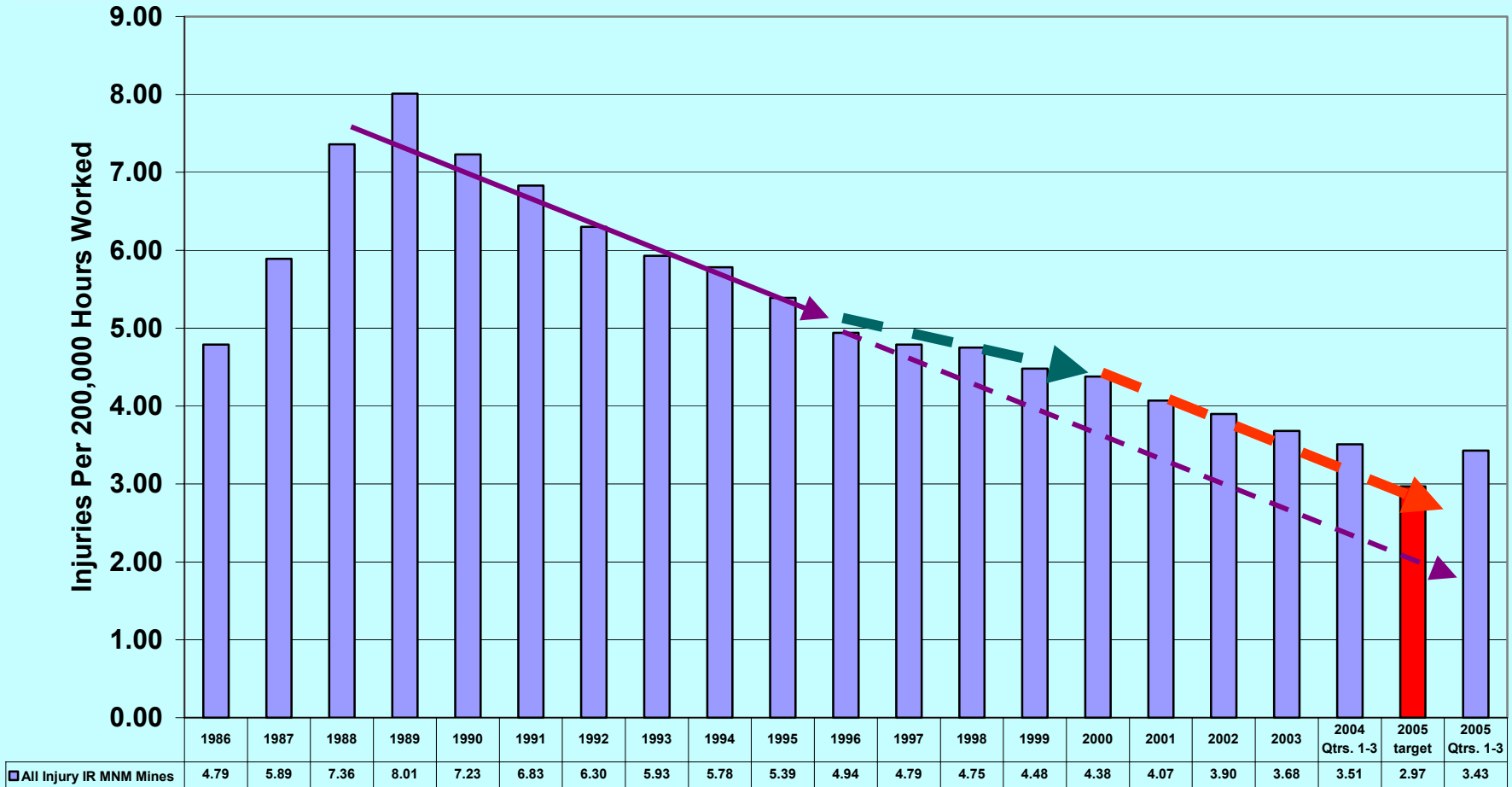


↑
1988

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1996

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2000

All-Injury Rate 1986 - 2005



↑
1996

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2000

Safety and Health are Values



Triangle of Success



Inspections and Citations

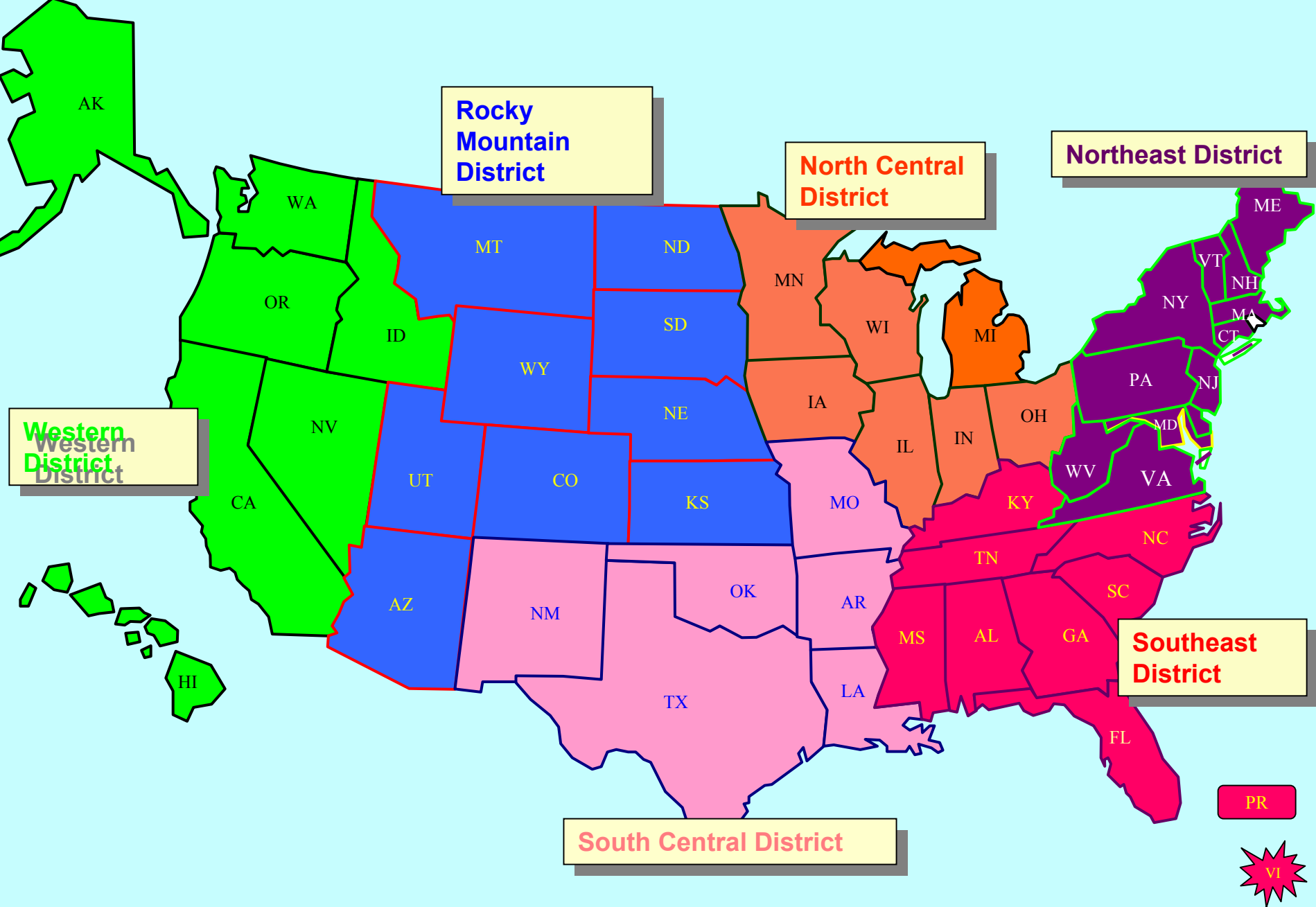
Calendar Year	Mines Reporting Employment	Million Hours Reported	Inspection Completion Rate %	Citations, Orders & Notices
2000	12, 289	377.2	73.7	61,875
2001	12, 479	362.4	75.3	58,269
2002	12,455	343.1	87.6	48,502
2003	12,419	337.2	87.4	53,158
2004	12,467	346.3	90.2	56.636
2005	11,790	172.2	****	37,821
YTD **				

Inspector Selection Process

- One-third eligible to retire now
- Competency-based recruitment
 - Influencing, negotiating, teaching
 - Planning & evaluating, problem solving
- Changed from nationwide hiring register to regional job fairs
 - Pre-screen applicants: math & writing tests
 - Hiring team conducts personal interviews
 - On-the-spot job offers

Inspector Training

- **Individual Development Plans (new inspectors)**
 - 2-year internship program...
 - Based on inspector Job Task Analysis
 - Links classroom training with...
 - On-the-Job training at mine sites
 - Objectives set and performance assessed
- **Continuing Education (journeymen)**
 - Formal: 80 hours every 2 years at Mine Academy
 - Sessions and materials evaluated by HQ
 - Restructured for maximum relevancy
 - In-house: approx. 40 hours by field office & district
 - Ad hoc: at mines, seminars & conferences



Metal and Nonmetal Districts

Fatal Accidents

Calendar Year	Total Fatal Accidents	Operator Fatal Acc.	Contractor Fatal Acc.	Operator % Fatal Acc.	Fatal Acc. Inc. Rate
2000	47	36	11	77 %	0.019
2001	30	20	10	67 %	0.011
2002	42	35	7	83 %	0.020
2003	26	22	4	85 %	0.013
2004	27	19	8	70 %	0.011
2005	25	22	3	88 %	0.022
YTD **					

Operator Nonfatal Accidents

Calendar Year	Operator NFDL Acc.	Operator NFDL IR	Operator NDL Acc.	Operator NDL IR	Operator Total IR
2000	5,527	2.93	3,096	1.64	4.59
2001	5,011	2.77	2,724	1.50	4.28
2002	4,543	2.65	2,269	1.32	3.99
2003	4,326	2.57	2,059	1.22	3.80
2004	4,204	2.43	2,140	1.24	3.67
2005	2,684	3.12	1,265	1.47	4.61
YTD **					

Contractor Nonfatal Accidents

Calendar Year	Contractor NFDL Accidents	Contractor NDL Accidents
2000	572	358
2001	395	289
2002	323	197
2003	261	210
2004	369	236
2005	261	182
YTD **		

Compliance Assistance

- Industry & Labor Alliances
- Cooperative Assistance
- Training
- Newsletters and Calendars
- Mine Visits (non-enforcement)
- Web Casts
- Best Practices

Alliances and Partnerships

- Trade Associations
 - National Stone, Sand & Gravel Assoc.
 - Industrial Minerals Assoc. of No. America
 - National Mining Assoc. & Bituminous Coal Operators Assoc.
- Labor Organizations
 - Intl. Union of Operating Engineers
 - Intl. Assoc. of Bridge, Structural, Ornamental & Reinforcing Ironworkers

Alliances & Partnerships, Cont'd

- Professional Societies
 - National Safety Council
 - American Society Of Safety Engineers
- Partnerships
 - The Gypsum Association
 - National Lime Association

Alliance Activities

- NSSGA Example -

- Data mining for injury analysis & trends
- Model Safety Program development
- Training resources production
 - Junkyard Guards DVD (100% miners)
 - Highwall safety videos
- Operators' “*15/50 Safety Pledge*” to reduce injuries
- Atlantic Alliance

Cooperative Assistance

- **C.A.R.E.**

Cooperative **A**ccident **R**eduction **E**ffort

- Selected mines receive in-depth assistance
- Selection based on injury incidence rate & violation history
- Additional on-site visits
- Accident & illness reviews
- Aid improving safety management systems

Cooperative Assistance

- Small Mines Office
 - There are 6600 mines with 5 or less miners
 - Benefits to mine
 - Safety is good business
 - Lower costs, more efficient operation
 - Regulatory compliance
 - Mine visits (non-enforcement)
 - Help identify hazards
 - Improve Safety & Health program
 - Provide training & technical support
 - Weekly prepared “*Tool Box Talks*”

MSHA-- Initiatives

- Make the Right Decision
 - Joint Metal & Nonmetal and Coal effort
 - Hazard Recognition and Risk Reduction
 - Focuses on human factors (decision-making)
 - S.L.A.M. – for miners:
 - **S**top – **L**ook – **A**nalyze - **M**anage
 - S.M.A.R.T. – for mine operators & managers
 - **S**top – **M**easure – **A**ct – **R**eview - **T**rain

Mine Partnership Agreements

- “Zero” injuries & illnesses are achievable goals
- Commitment to Risk Analysis process
- Sharing Best Practices
- Embrace *Training Makes a Difference* values
- Safety & Health seminars / conferences
- Set incremental goals to improve

Mine Partnerships

- Participate in Professional Miner Program
- Cooperative sharing of resources
 - Technical Support, Mine Academy, EFS
- Resolve citations at close-out sessions
- Special accident reduction & outreach
- Improve mine rescue capabilities
- In-person meetings between mine management and MSHA District Manager

Miner Training

- Job Task Analyses
 - Using “Mine Manager” software, available to mine
 - Improves production, maintenance and safety
- Web-based distance learning
 - Uses National Guard’s facilities on weekdays
- Mobile electrical training trailers (2)
- Personal Protective Equipment
 - “Let’s Get It On!” program
 - 3-year inspector-driven awareness program
 - Posters, pamphlets, stickers

Miner Training

- Training Makes a Difference (TMD)
 - EFS: Educational Field Services (on-site)
 - Analysis & improvement of safety management program
 - In-depth training plan & resource assistance
- Training Materials
 - Ex.: Equipment guarding suite of products
 - Handbook
 - Equipment Guarding DVD (detailed how-to)
 - Junkyard Guards (miners solve guard problems)

Communication

- **Walk-and-Talk Mine Visits**
 - Supervisory injuries and fatalities
 - Leadership and role modeling
 - Maintenance safety
- **Spring Thaw Workshops**
 - Joint effort: MSHA & Mining Industry
 - Share information & expertise w/ area mines
 - 2005: 49 workshops in 40 states

Communication

- Hazard Alerts
 - Maintenance work
 - Contractors
 - PPE
 - Seasonal hazards
- Quarterly Newsletters: web-based
 - Safety success stories
 - Training products
 - Accident reduction
 - Mine rescue contests

Communication

- Web Casts
 - Internet & phone-based stakeholder meetings
 - “Speak Out and Make a Difference”
 - “Industry Needs **U** in the Middle to Reduce Fatalities”
 - “Building Blocks of Safety”; “Safety Values”
- Pocket Safety Calendars
 - Useful tips
 - Reminders
 - Tool to document safety inspections and workplace examinations

Communication

- Conferences, Papers & Presentations
 - Mine Rescue Contests
 - Joseph A. Holmes Mine Safety Assoc.
 - American Society of Safety Engineers
 - World Safety Congress
 - Atlantic Alliance
 - Regional and Industry Segment Meetings
 - Best Practices
 - Shared by “*Sentinels of Safety*” Winners
 - Coming: Regional MSHA Conferences