Trending Data Presentation

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Trending Practices by Operators

- Contractor meeting in April 2007
  - Trending data?
    - How is it collected?
    - How is it used?
    - Where can the contractor access?

Trending Practices by Operators

My Objective today

- **Where** do Operators get their trending data?

- **What** do Operators do with the data?

- **How** does the data impact their HSE systems/processes?

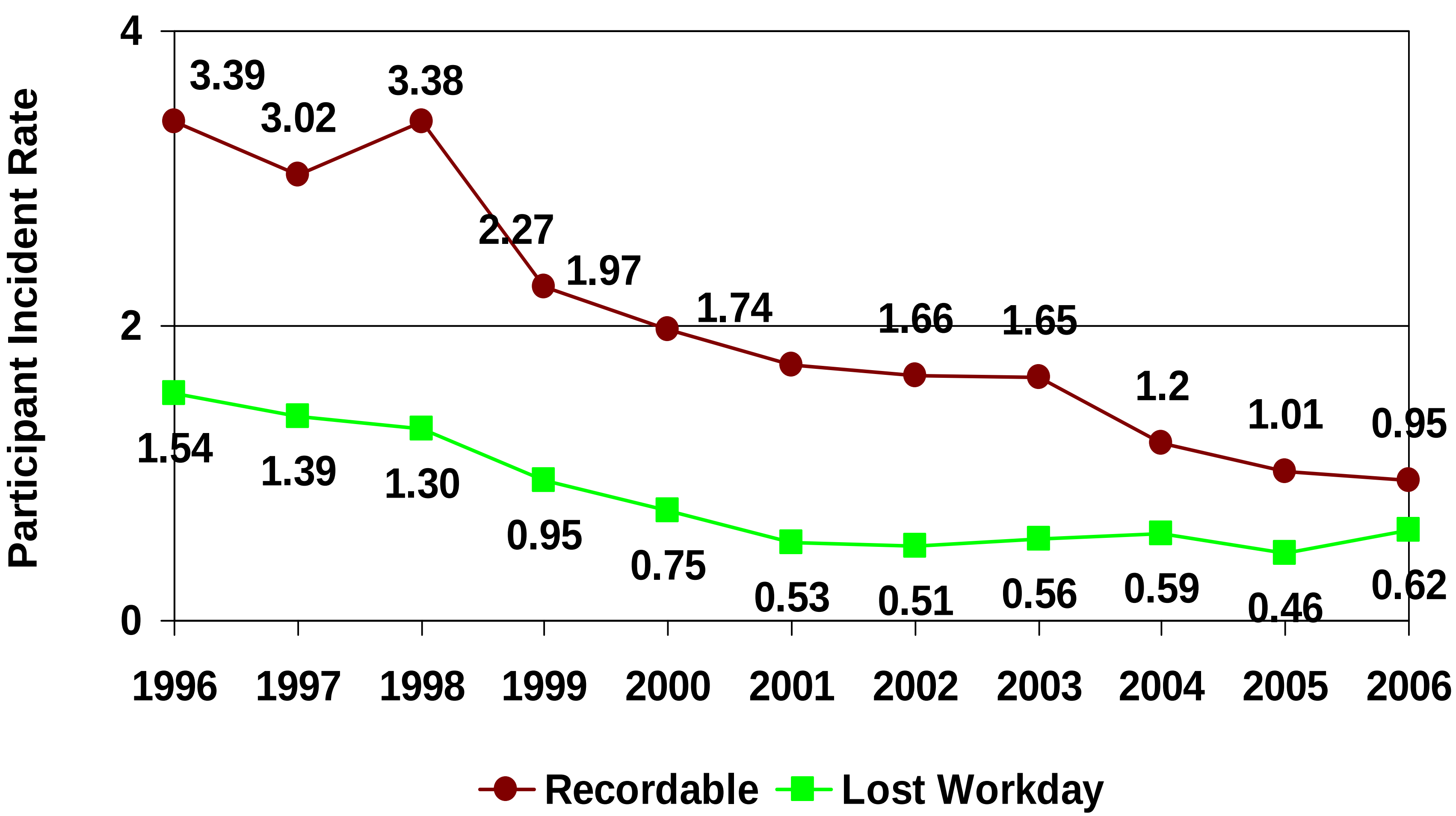
Trending by Operators

- Where does the data come from?
  - Operator Managed Site
    - BBS outputs
    - Accident / Near Miss Reports
    - Incident investigation results

Process Used

- <u>What do we do with the data?</u>
  - Data is captured on an Operator Database
  - Analysis is done internally within each Operator company
    - Categorized
    - Trending
  - Data on individual Contractor IS NOT shared outside conversations with that Contractor.

Combined Operations Recordable and Lost Workday/DART Case Incident Rates

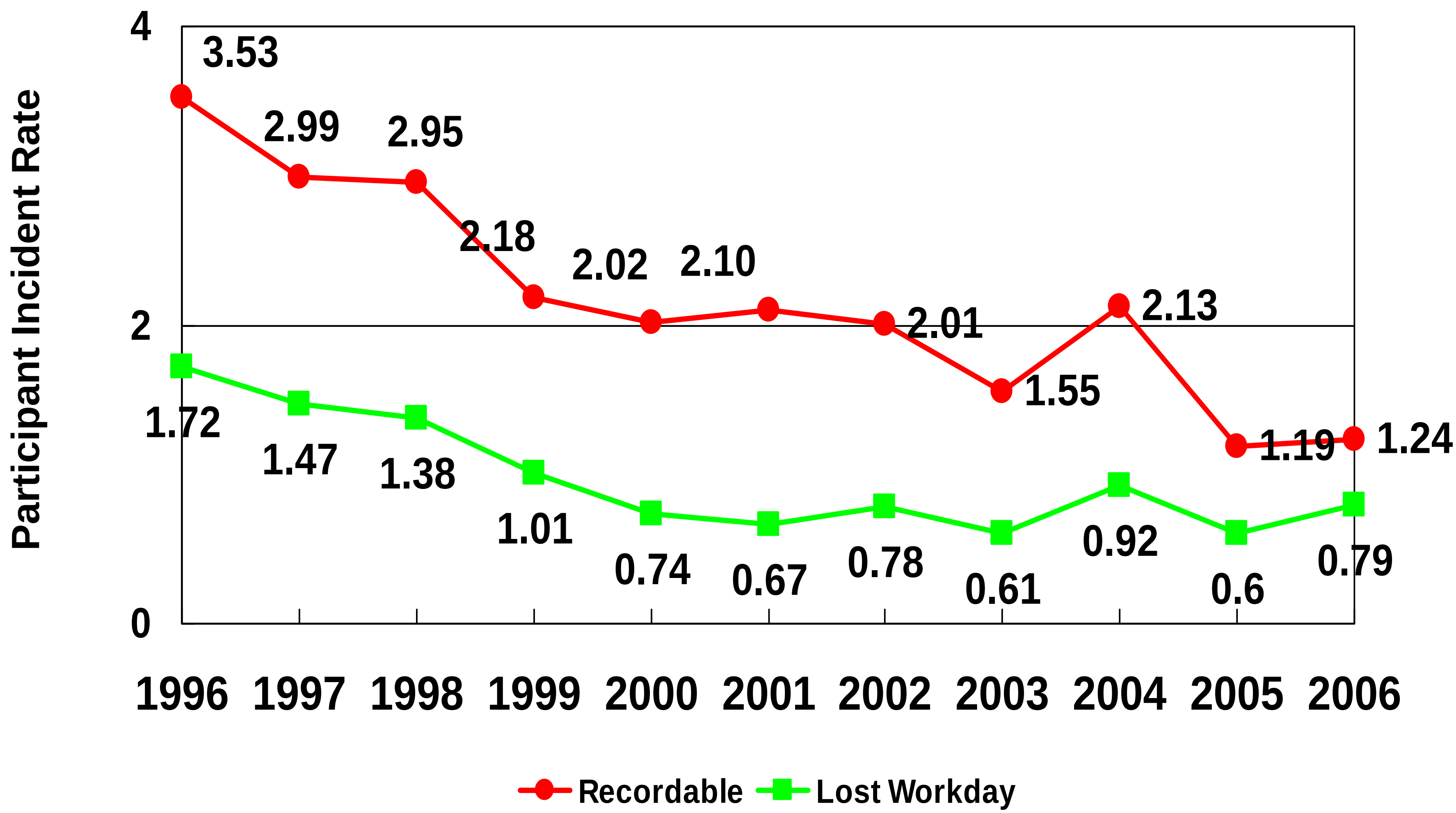


Source; MMS

Trending by Operators

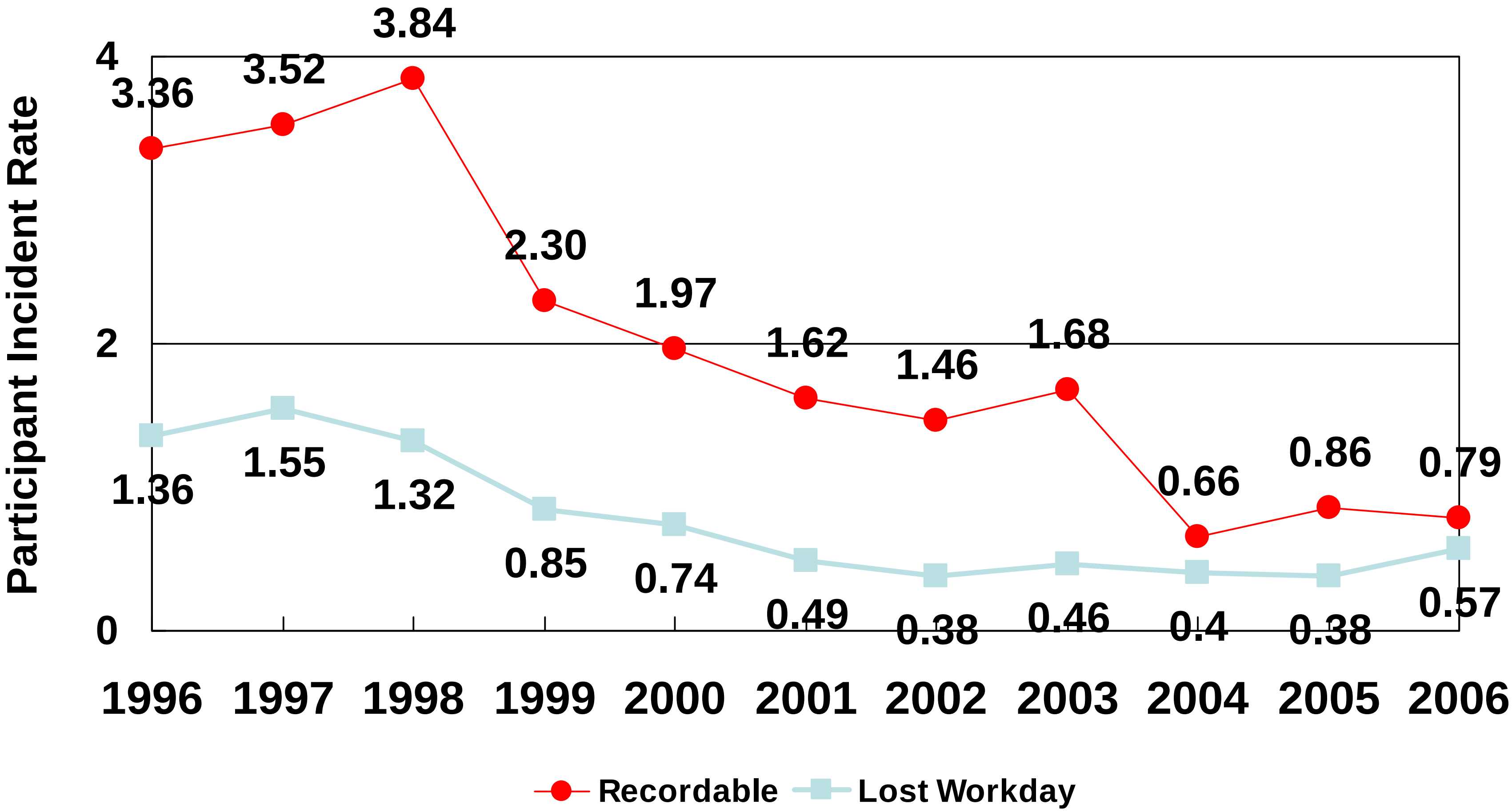
- <u>What do we do with the data? (cont.)</u>
  - Trend analysis updated on Quarterly or Semi-annual basis
  - Breakdown results to industry sectors
    (Construction, Wells, Production, etc.)

Production Operations Recordable and Lost Workday/DART Case Incident Rates

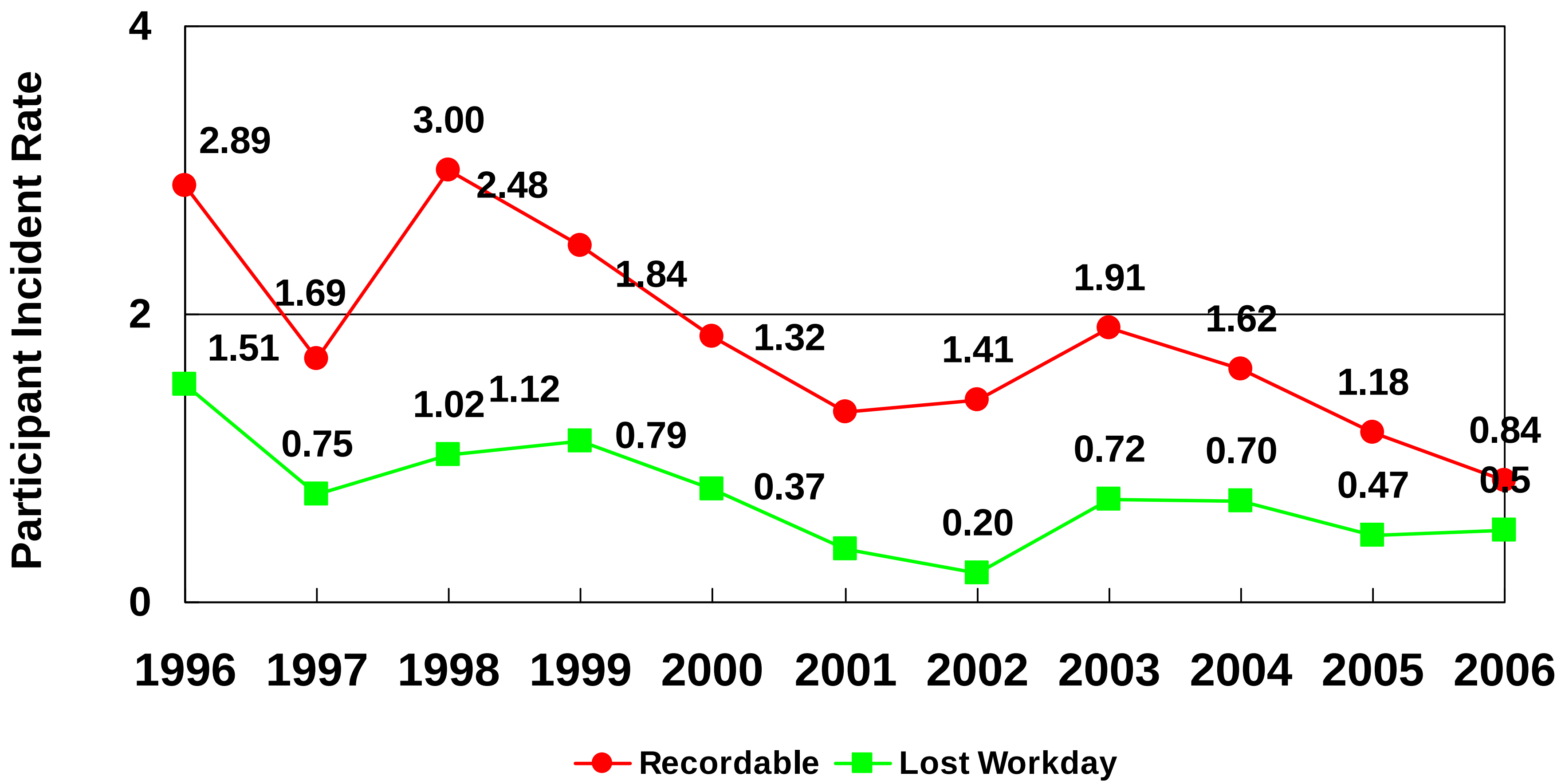


Source; MMS

Drilling Operations Recordable and Lost Workday/DART Case Incident Rates



Construction Operations Recordable and Lost Workday/DART Case Incident Rates



Trending by Operators

- What do we do with the data? (cont.)
  - Data is shared within industry
    - MMS – Minerals Management Service
    - OGP – Offshore G Producers
    - OOC – Offshore Operators Committee

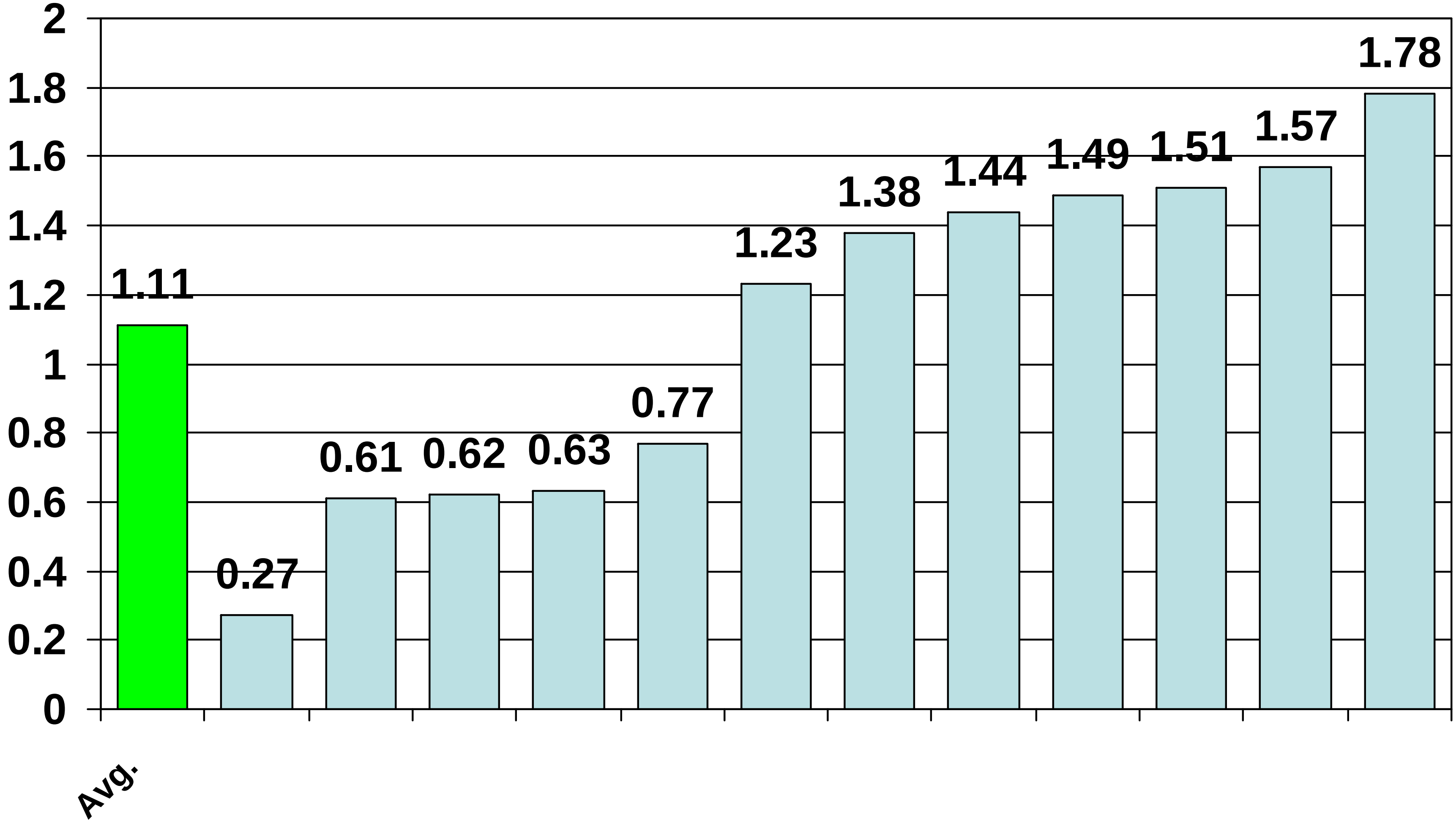
    - Operator Forums

HES Managers' Forum

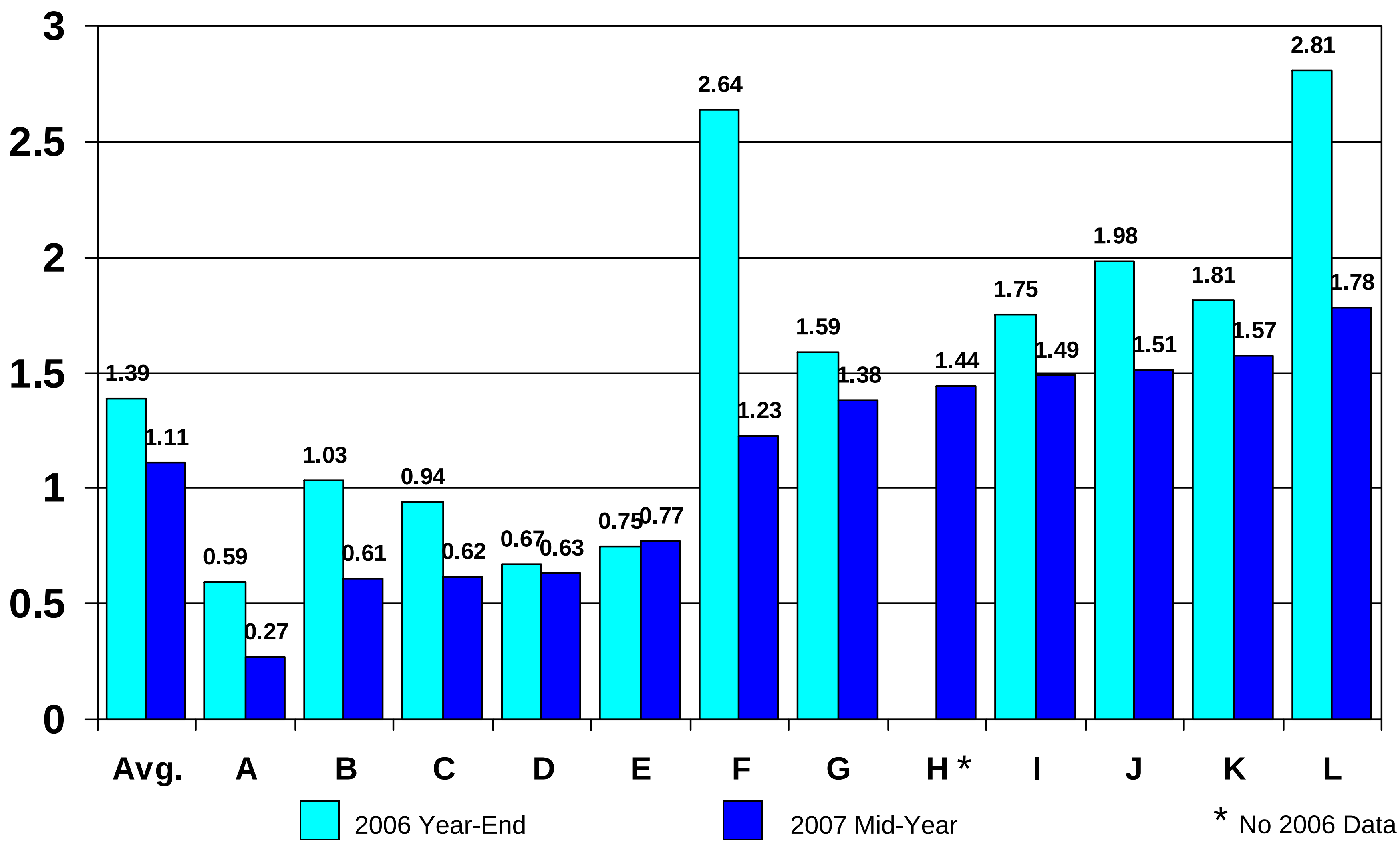
- Anadarko
- BP
- ConocoPhillips
- Devon
- ExxonMobil
- Shell
- OXY
- Marathon Oil
- Mariner Energy
- Chevron
- Hess
- Hydro

2007 Mid-Year Domestic

Combined Recordable Incidence Rate



2007 Mid-Year Domestic
Combined Recordable Incidence Rate

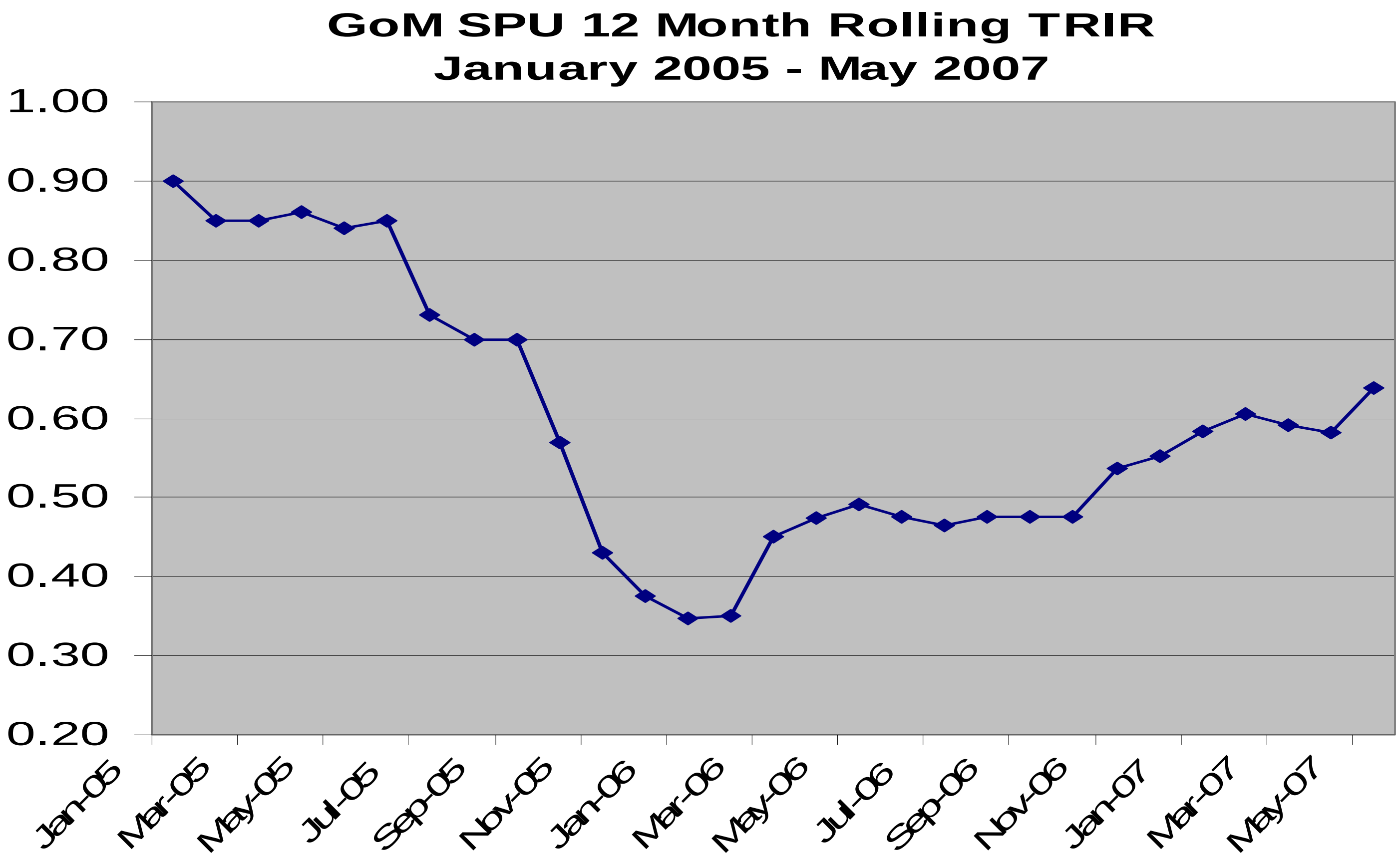


Observations

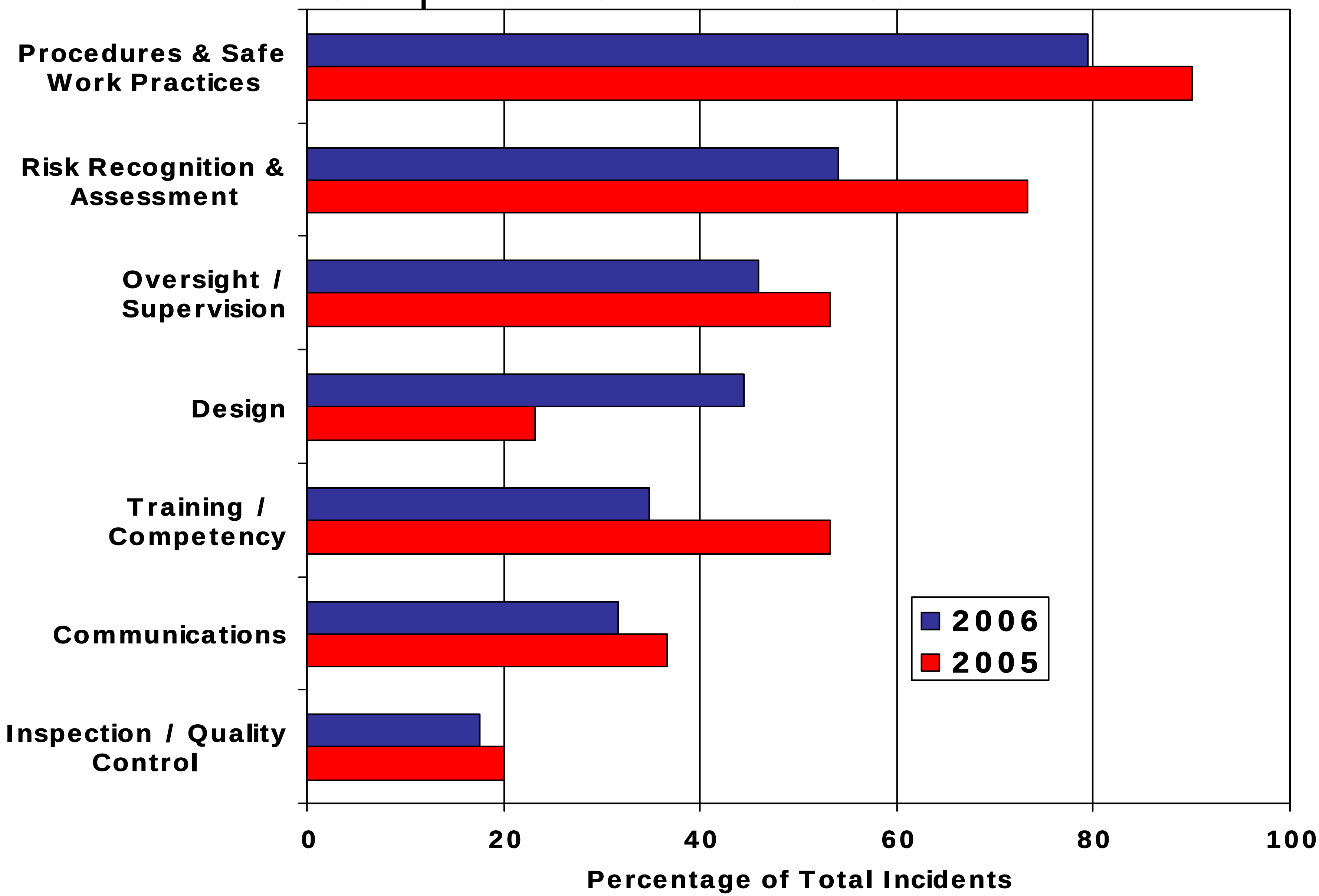
- Can We Become Complacent?

  The most recent comparison of Trend Analysis between Shell, Chevron, and BP would indicate we can not.

Trends seen under a closer look

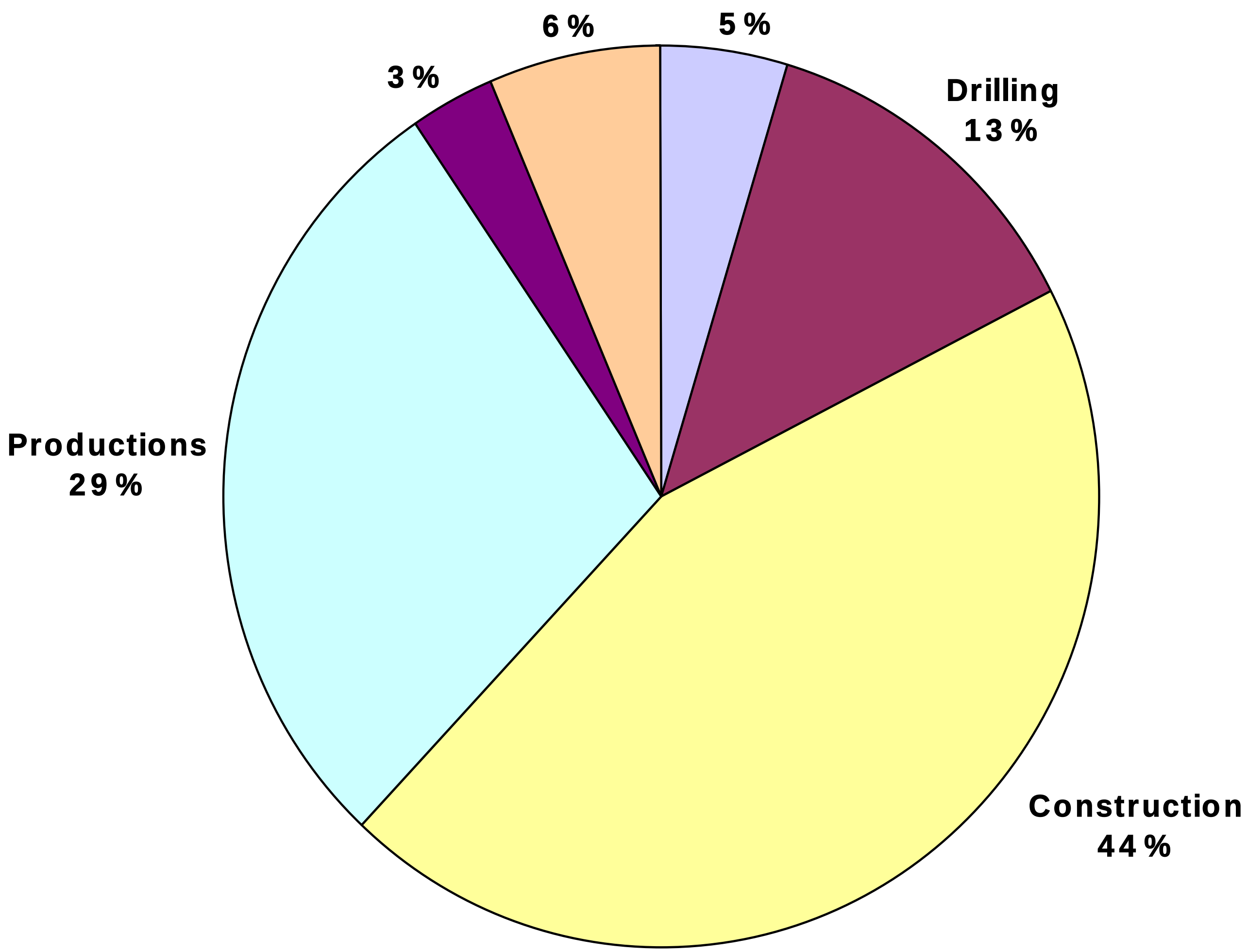


Incident Breakdown by Root Cause Categories
Comparison of 2005 vs. 2006



Permitted Work Incidents

Incident Breakdown by Work Activity



Immediate Causes from Incident Reviews

- Failure to follow procedures
- Risk Identification
- Inattention / Lack of Awareness

Trending by Operators

- How does the data impact Operator Processes?
  - Formulating Performance Targets
  - Basis of Performance Improvement Plans
    - Work Site Improvement Plans
    - Safety Initiatives
  - Short Term and Long Term Business Plans

Trending Path Forward

- Continue detailed analysis of data generated by Safety Processes
  - Monitor progress and trends

- Strengthen Training curriculum by reviewing learnings with Training and Competency Function Teams

- Develop action plan with Asset level focus

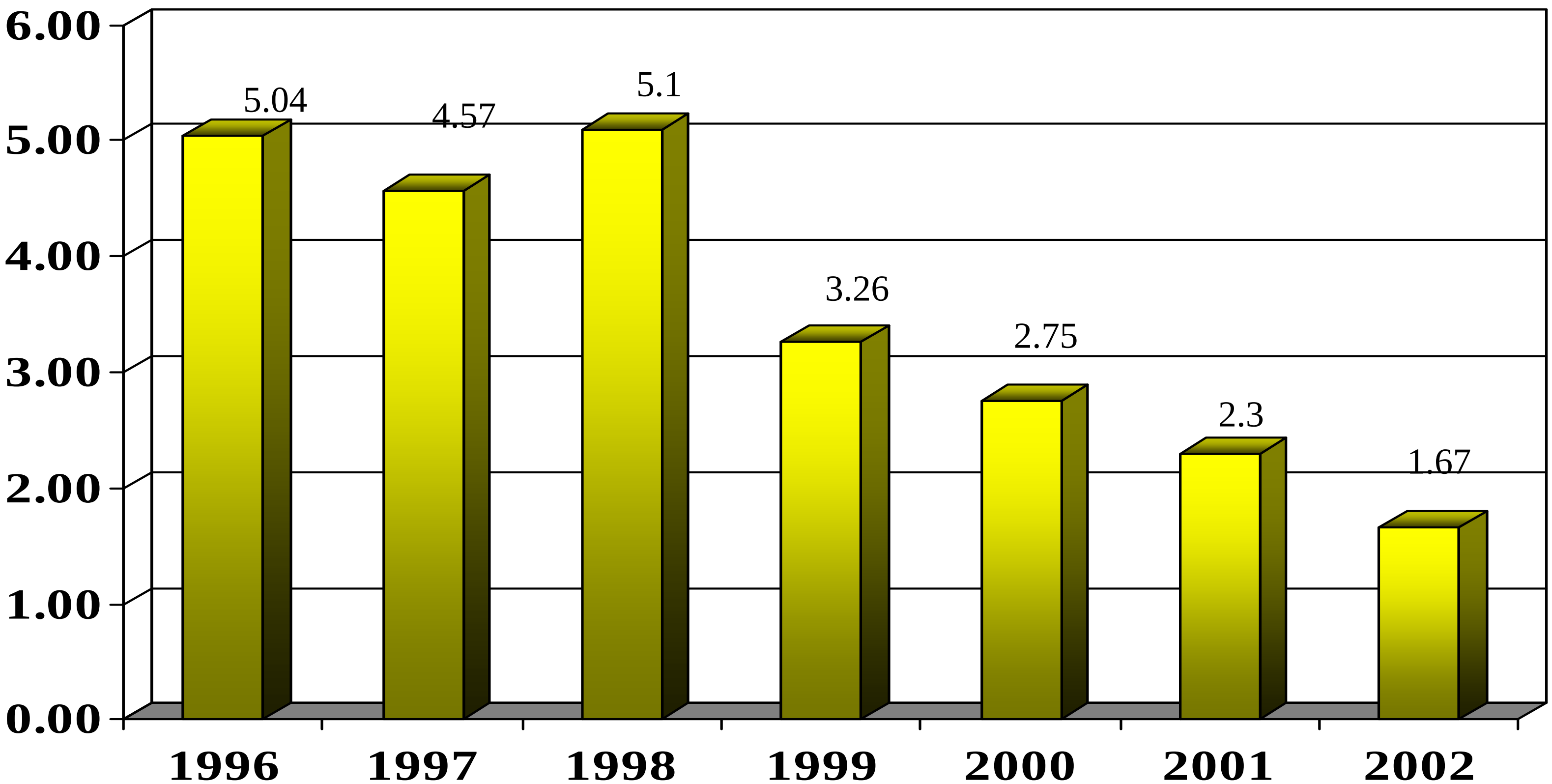
- Strengthen investigating & reporting skills with an objective to increase quality of incident outcomes.

RCA Process Matrix

Incident Classifications	Levels of Investigation	Investigation Teams
Minor incidents – First Aid, medical, spill of < 1bbl	Informal or Formal determined by operations	May be field based
DAFWC, spill of 1-100 bbl, High Potential Incidents	Formal investigation	May consist of external members
Major Incidents – Severe injury, Fatalities, catastrophic events	Formal investigation	External & Independent Team

FLASH BACK

In the 2003 Symposium We Presented



TRIR of Contractors

Source - MMS

Identified Root Cause Trends From Pre-2003 Incidents

- Procedures not followed or in place
- Job Safety Analysis (JSA) not conducted
- Inadequate Assessment of Needs or Risks
- Lack of Leadership/Supervision
- Inattention/Lack of Awareness