

# MSFC Industrial Safety Report

(Current as of August 31, 2004)

- **Preliminary PEP Survey Results**
- **Team Personnel Safety Pyramid**
- **Civil Service and Contractor Mishaps Breakdown**
- **Corrective Actions**
- **What Employees are Reporting**
- **FY04 Lost Time Mishaps**
- **Leading Indicator Trends**
- **August Honor Roll**
- **Trailing Indicator Trends**
- **Organizational Metrics**
- **Workers Compensation Report**
- **Mishap Trends 1999-2003**
- **Emergency Personnel Authority**

**NASA Safety Value:** “We are committed, individually and as a team, to protecting the safety and health of the public, our partners, our people and those assets that the Nation entrusts to us. Safety is the cornerstone upon which we build mission success.”

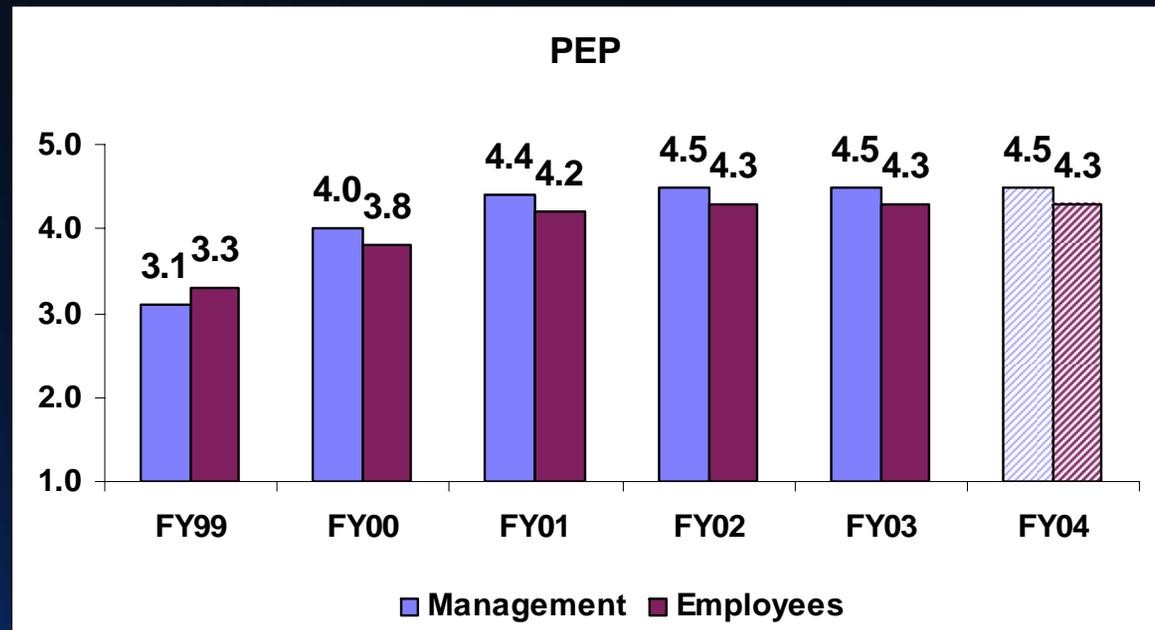
# Preliminary FY04 PEP Survey Results

Results as of Thursday, September 2<sup>nd</sup>

## Participation

Managers - 88%  
Employees - 86%

## Scores



# MSFC Team Metric - Personnel Safety

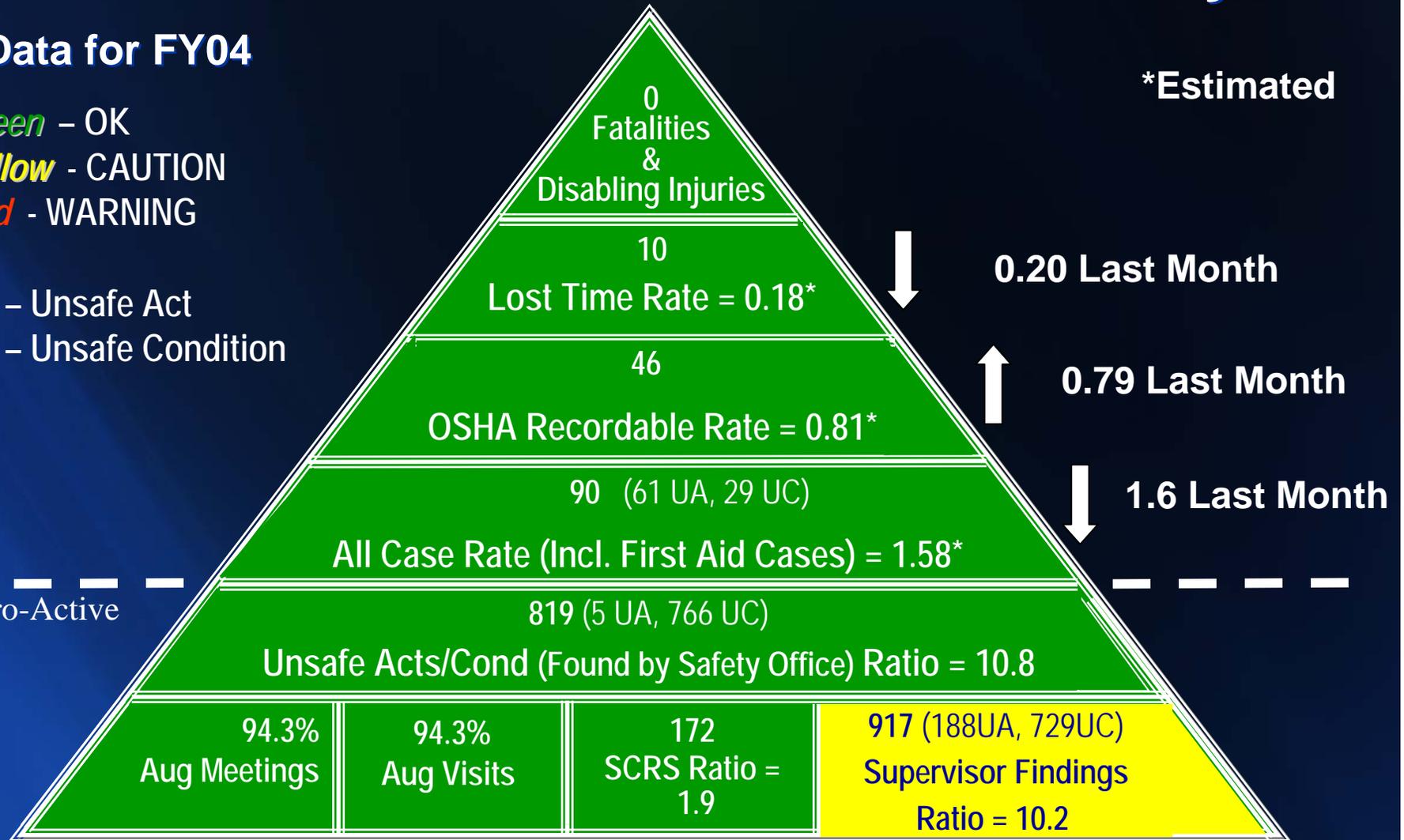
Data for FY04

*Green* - OK  
*Yellow* - CAUTION  
*Red* - WARNING

UA - Unsafe Act  
 UC - Unsafe Condition

Pro-Active

\*Estimated



# Corrective Actions for Red/Yellow Team Pyramid Metrics

## Action

## Actionee

- **Unsafe Acts/Conditions in SSWP/SOS**

- Stress importance of UC/UA identification and reporting to line supervision
- Attend “hands-on” safety visit training
- Improve SSWP findings database to include an automatic corrective action process

Managers/Supervisors

Supervisors

S&MA

# Civil Service & Contractor Mishap Metrics

**FY04**

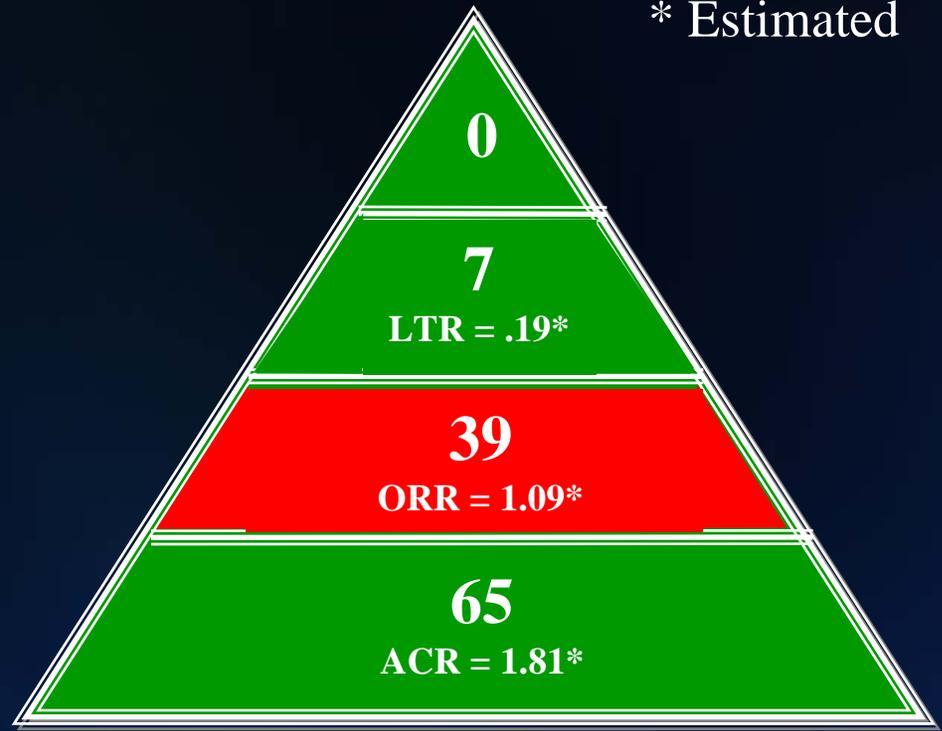
*Green* - OK  
*Yellow* - CAUTION  
*Red* - WARNING

LTR - Lost Time Rate  
ORR - OSHA Recordable Rate  
ACR - All Case Rate (includes first aid cases)

\* Estimated



Civil Service



Contractors

### What Employee Reported in Past Month (08-31-04)



#### SCRS

- Traffic/Roadway Issues - 7
- Crosswalk Issues – 2
- Air quality/odor concern - 2
- Inadequate Emergency Lighting – 1
- Slip/Trips Hazard -1
- Unsanitary Phone - 1
- Wheelchair Access – 1
- Inadequate fall protection – 1
- Fumes entering building - 1
- Improper waste in “foam only” dumpster – 1
- Locked exit doors – 1
- Inadequate lighting – 1
- Rough handrail – 1
- Mold concern -1
- Improper crane rigging -1
- Tobacco chewing sanitary issue -1
- Potential Asbestos Exposure – 1
- Not using seatbelt on tractor - 1
- Potential crane striking personnel hazard – 1



#### SOS

- Not using turn signals - 2
- Running Stop Light or Sign – 1
- Child running in hall - 1

# FY04 Lost-Time Mishaps (08-31-04)

## NO NEW LOST TIME CASES

- |           |   |
|-----------|---|
| 06/03/04  | Employee participating in office event at Rustic Lodge tripped/fell/sprained ankle – Lost 1 day                                   |
| 06/12/04  | Employee fell from fence, injured knee and arm – Lost time continues  |
| 06/16/04  | Employee was walking on sidewalk, fell backward, striking head and fracturing arm – Lost 5 days, with 33 restricted days expected |
| 03/05/04  | Tool box fell on employees fingers, requiring surgery – Lost 7 days   |
| *03/01/04 | Off-site employee strained neck in on-site vehicle accident with Army employee vehicle – Lost 2 days                              |
| 02/09/04  | Employee lifted overweight luggage while on TDY, ruptured disk in back – Lost 23 days with 33 restricted days                     |
| 02/12/04  | Employee tripped over foot, fell face forward resulting in a concussion – Lost 17 days  |
| 12/03/03  | Employee kneeling and bending for long period of time, injured knee requiring surgery – Lost 2 days                               |
| 11/10/03  | Employee lacerated hand when checking work with milling machine running – Lost 4 days   |
| 10/14/03  | Employee stumbled, struck head on guardrail, required 47 stitches - Lost 2 days + 3 restricted days                               |
| 10/08/03  | Employee strained back removing/moving sound equipment from van – Lost 9 days + 4 restricted days                                 |

\*Not Included in MSFC Team LTIR

Slips/Trips/Falls (4)

Back Injury (2)

Other (5)

# Team Metrics - Leading Indicators (08-31-04)

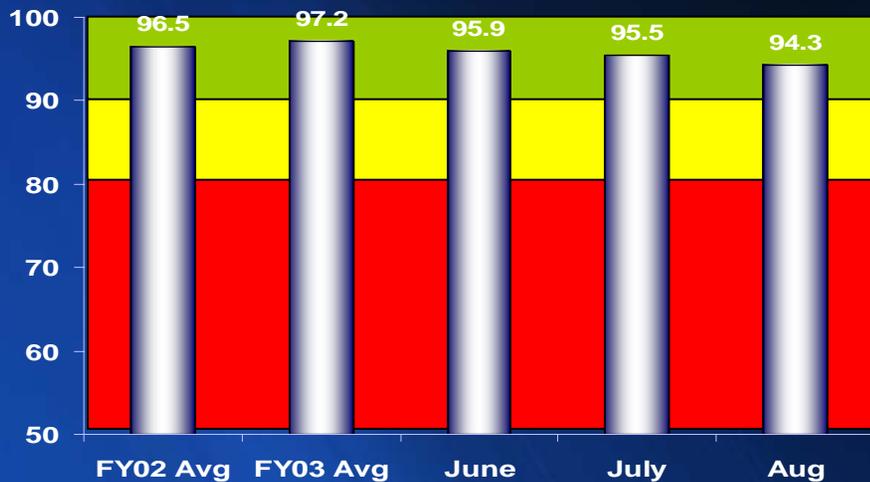
SCRS Submitted per Month



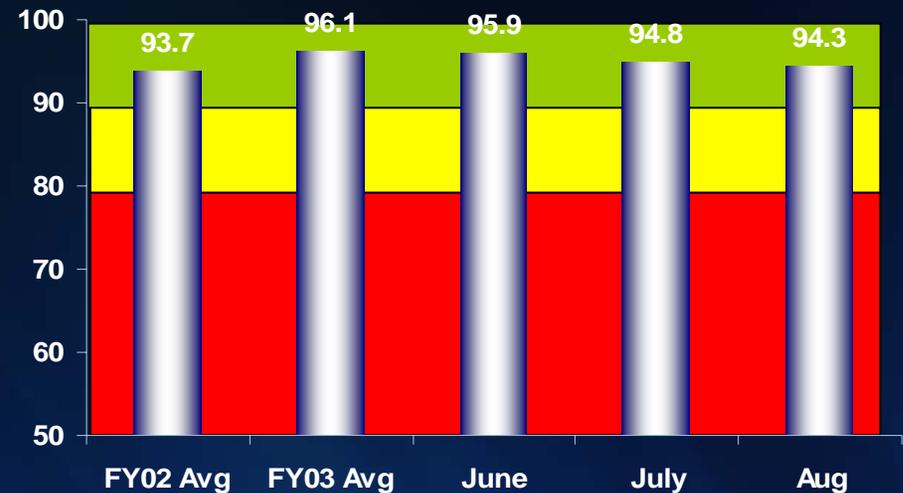
Late SHEtrak and Mishap



% of Required Safety Meetings



% of Required Safety Visits



## August Safety Meetings and Visits (08-31-04)

### Honor Roll - 100% both Meetings & Visits

DA (33)

OS (33)

AD (16)

PS (04)

CD (17)

QD (1)

LS (14)

SD (33)

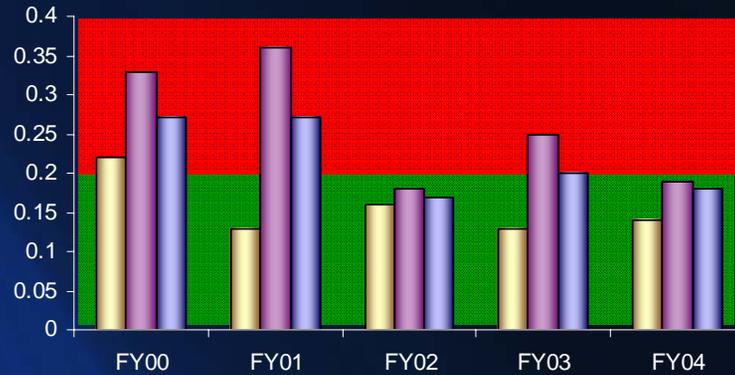
MP (33)

(Consecutive Months on Honor Roll)

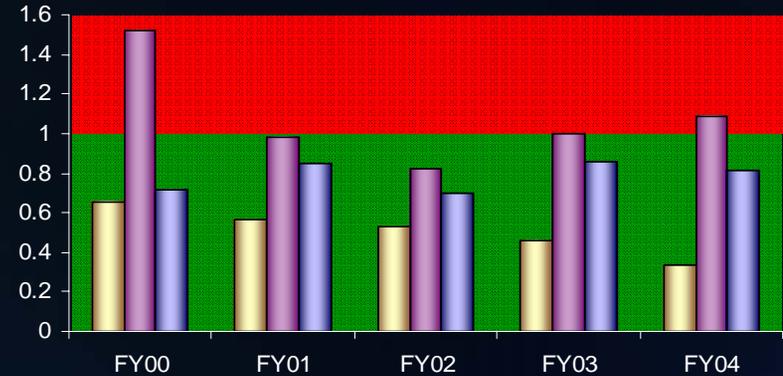
# Team Metrics - Trailing Indicators (08-31-04)

Lower is Better

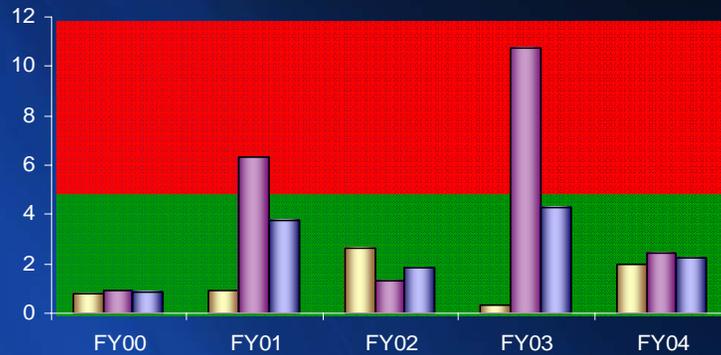
### Lost Time Rate



### Recordable Rate



### Severity Rate



### Equip. & Property Damage



Red Above Goal

Green Meeting Goal

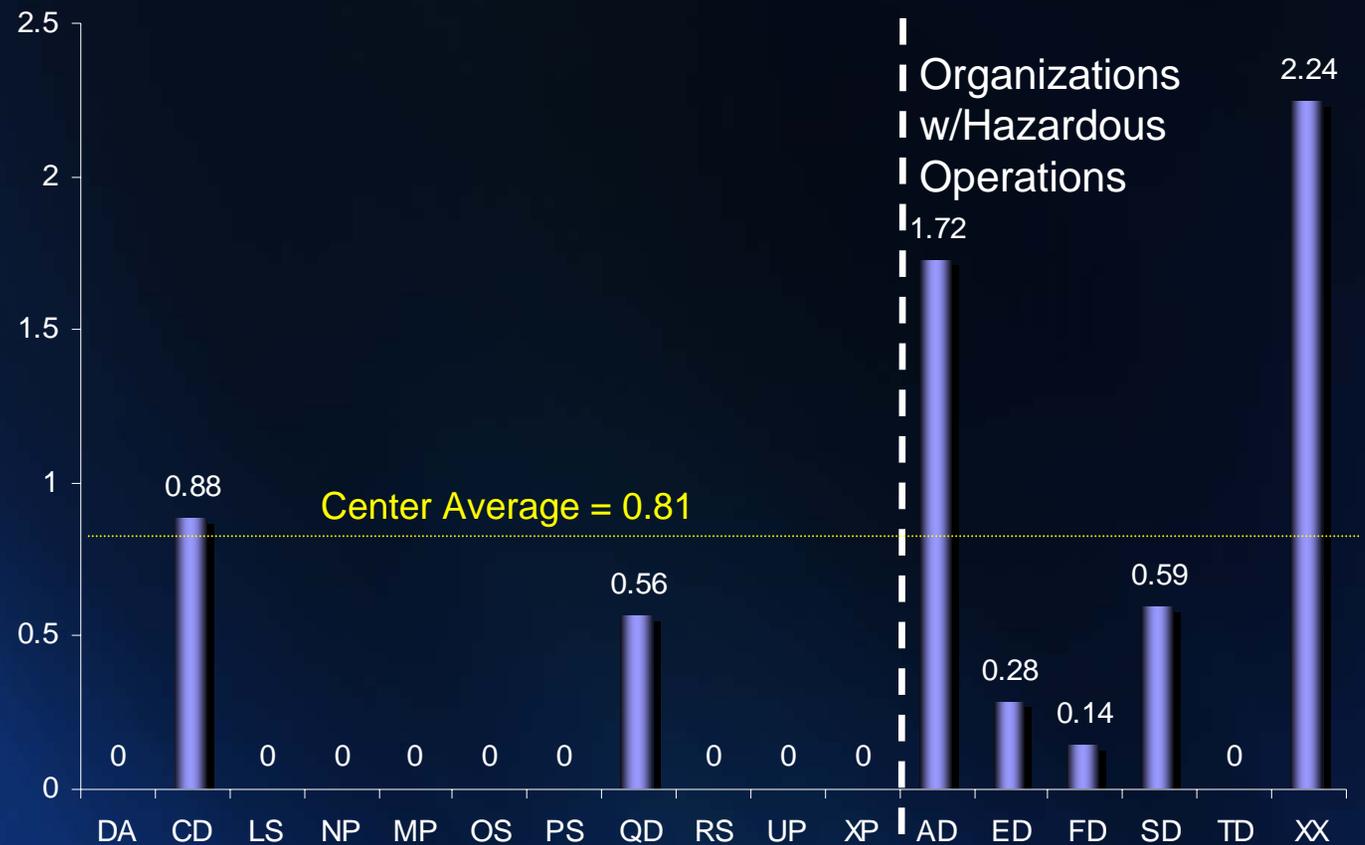
Yellow Civil Service

Purple Contractors

Blue Team

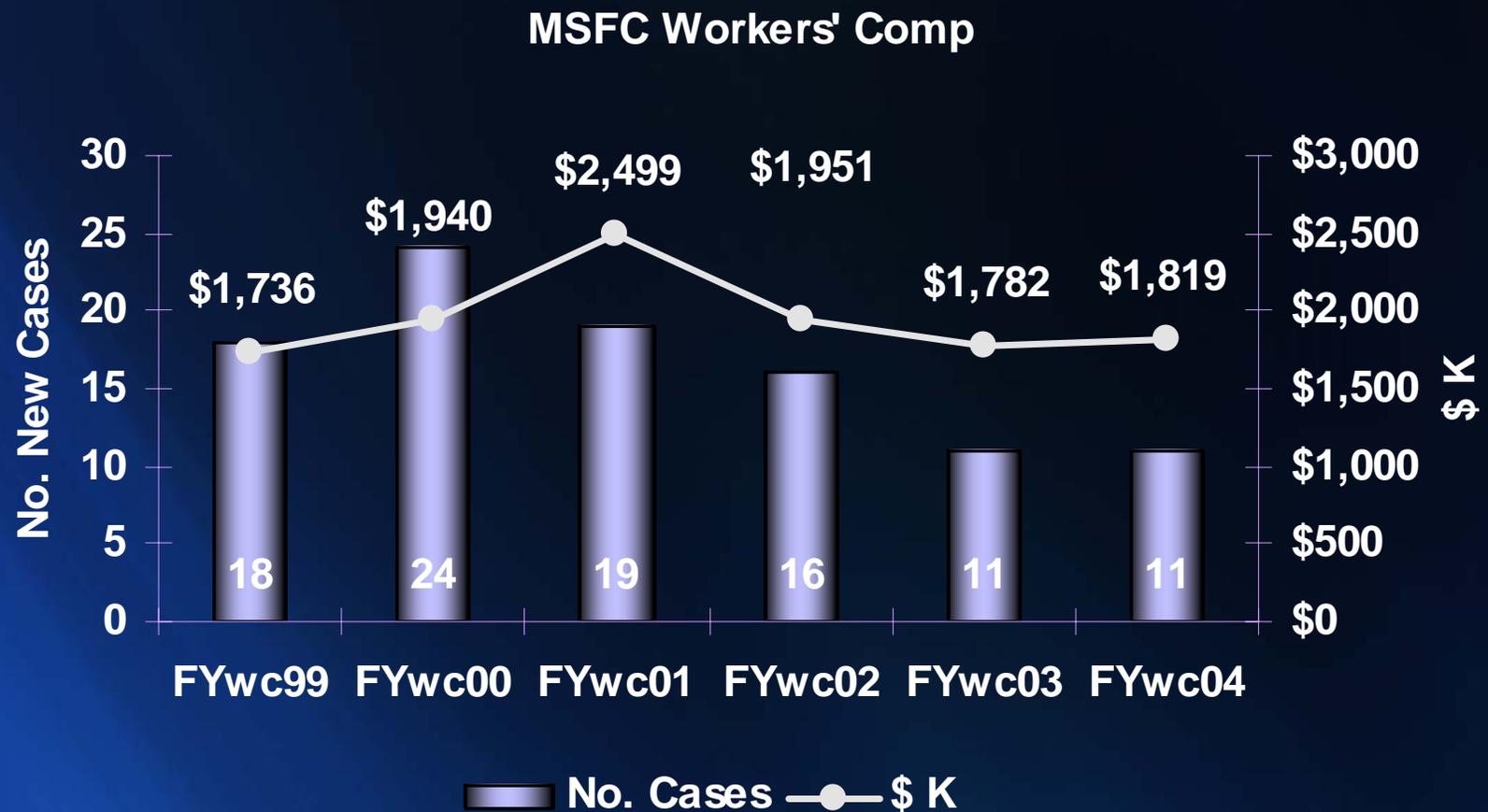
# FY04 OSHA Recordable Rates by Organization (Includes Contractors) (08-31-04)

ORG	Hours*	No.
DA	25,536	0
CD	502,187	2
LS	22,434	0
NP	10,896	0
MP	454,236	0
OS	7,939	0
PS	236,720	0
QD	360,304	1
RS	225,727	0
UP	153,773	0
XP	13,418	0
AD	4,074,884	35
ED	2,132,927	3
FD	1,381,299	1
SD	678,635	2
TD	840,482	0



\*Hours for Current Month Estimated

# Workers Compensation Trends



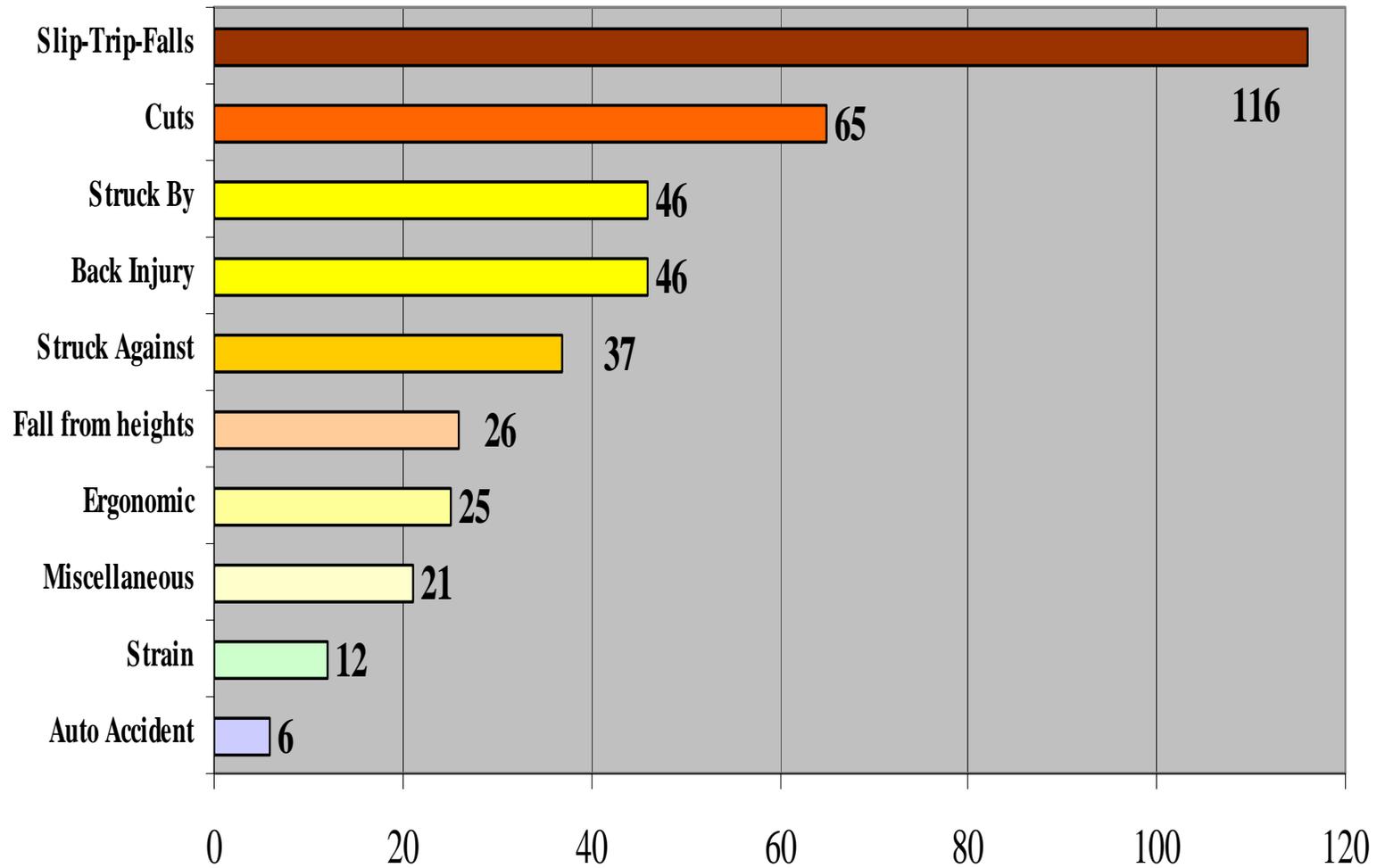
Workers Comp (WC) Data is for MSFC Civil Service only. (Contractors keep their own data.)  
 WC FY runs from July 1 thru June 30

Mishap Summary Date for 1999 thru 2003

1999 through 2003

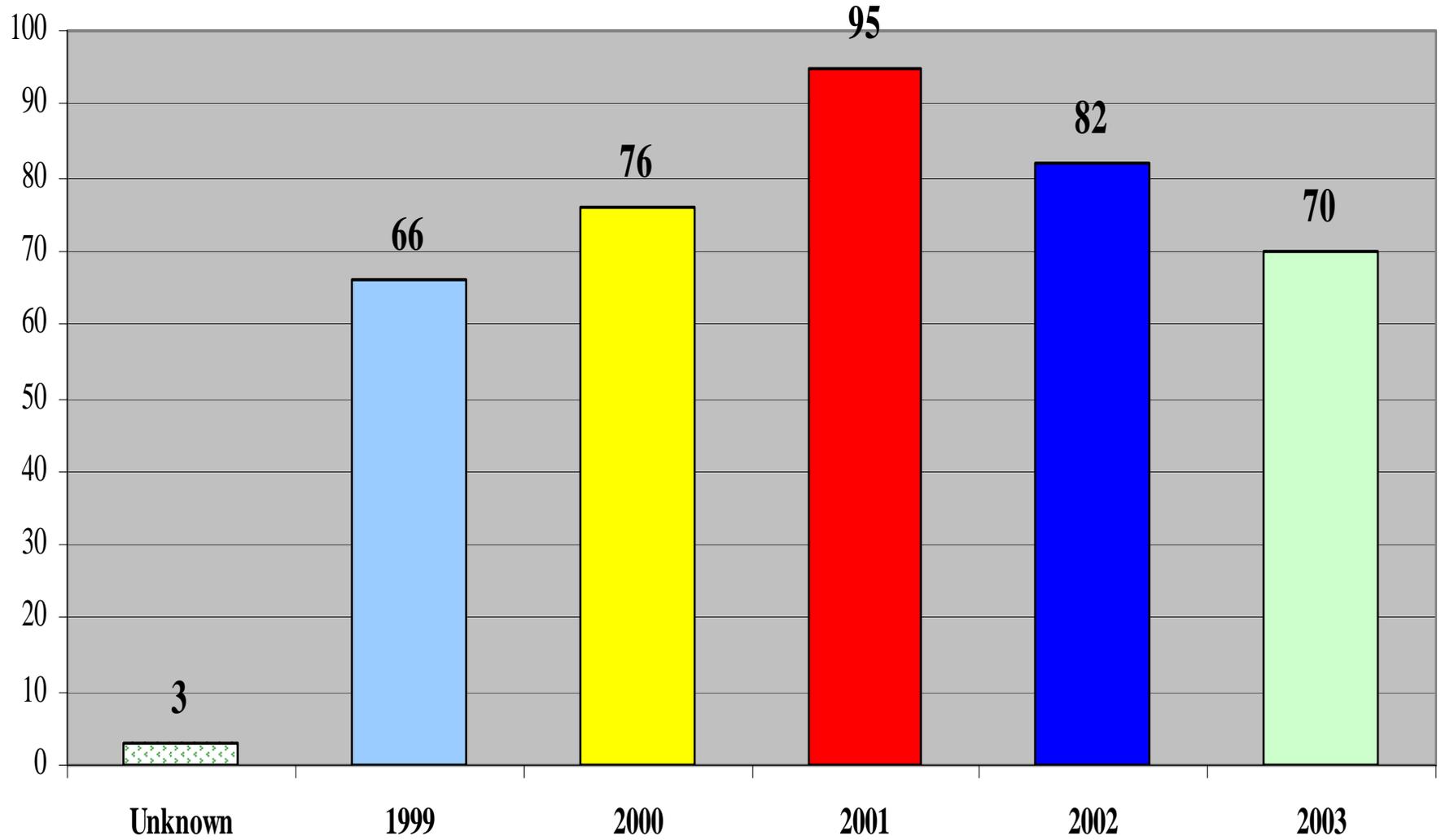
## Mishaps By Category

392 Incidents



# Mishaps By Calendar Year

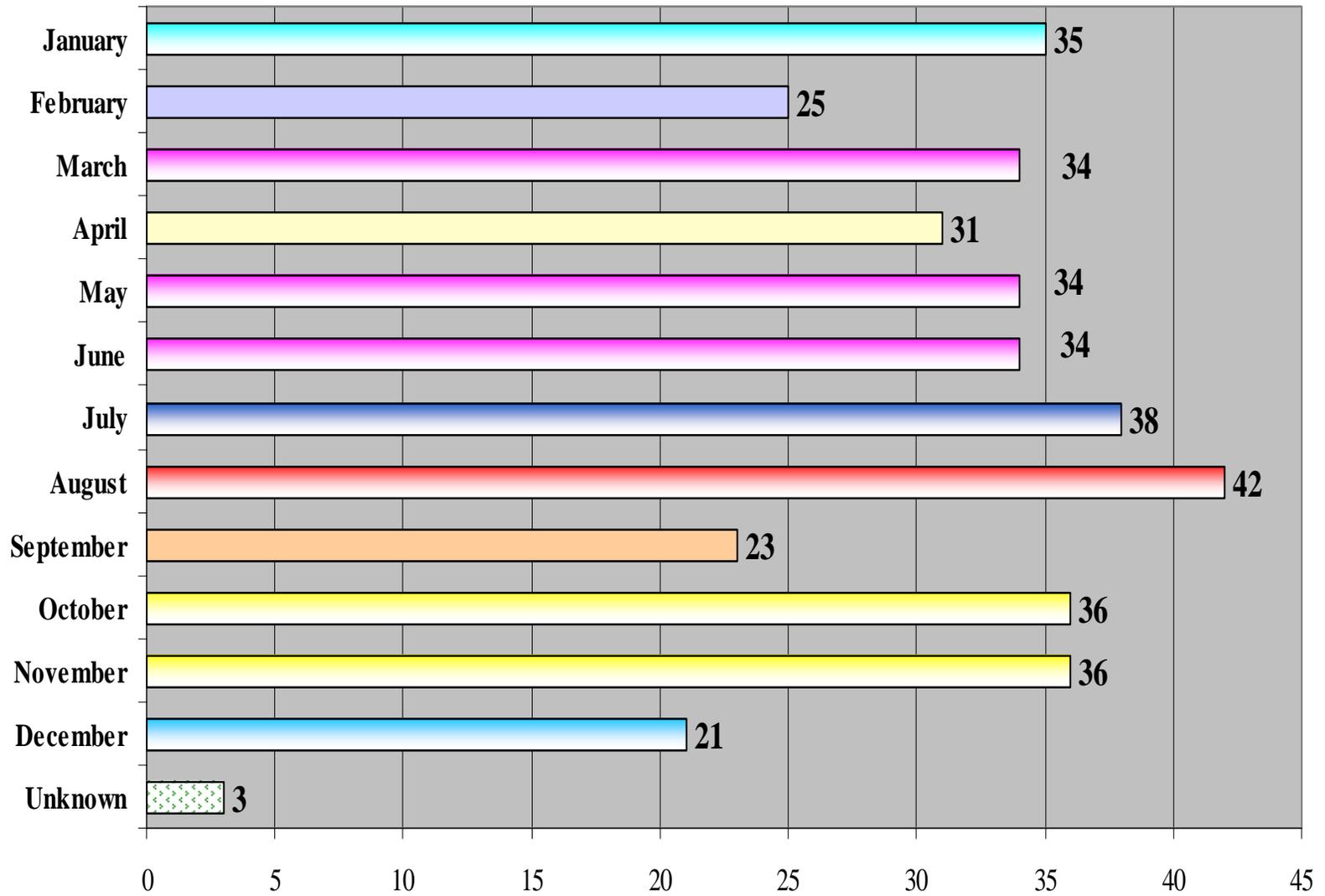
392 Incidents



1999 through 2003

### Mishaps By Month

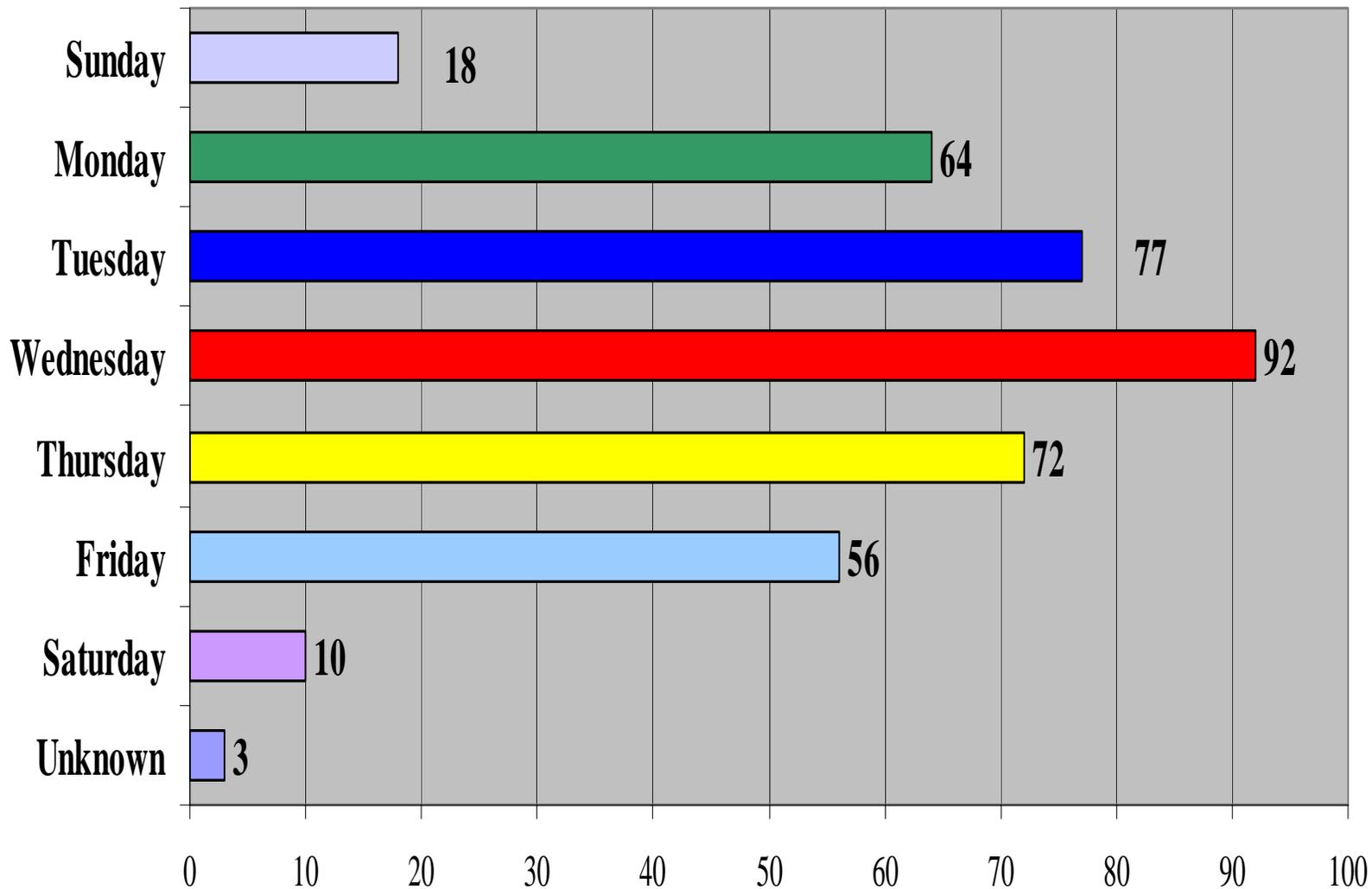
392 Incidents



1999 through 2003

392 Incidents

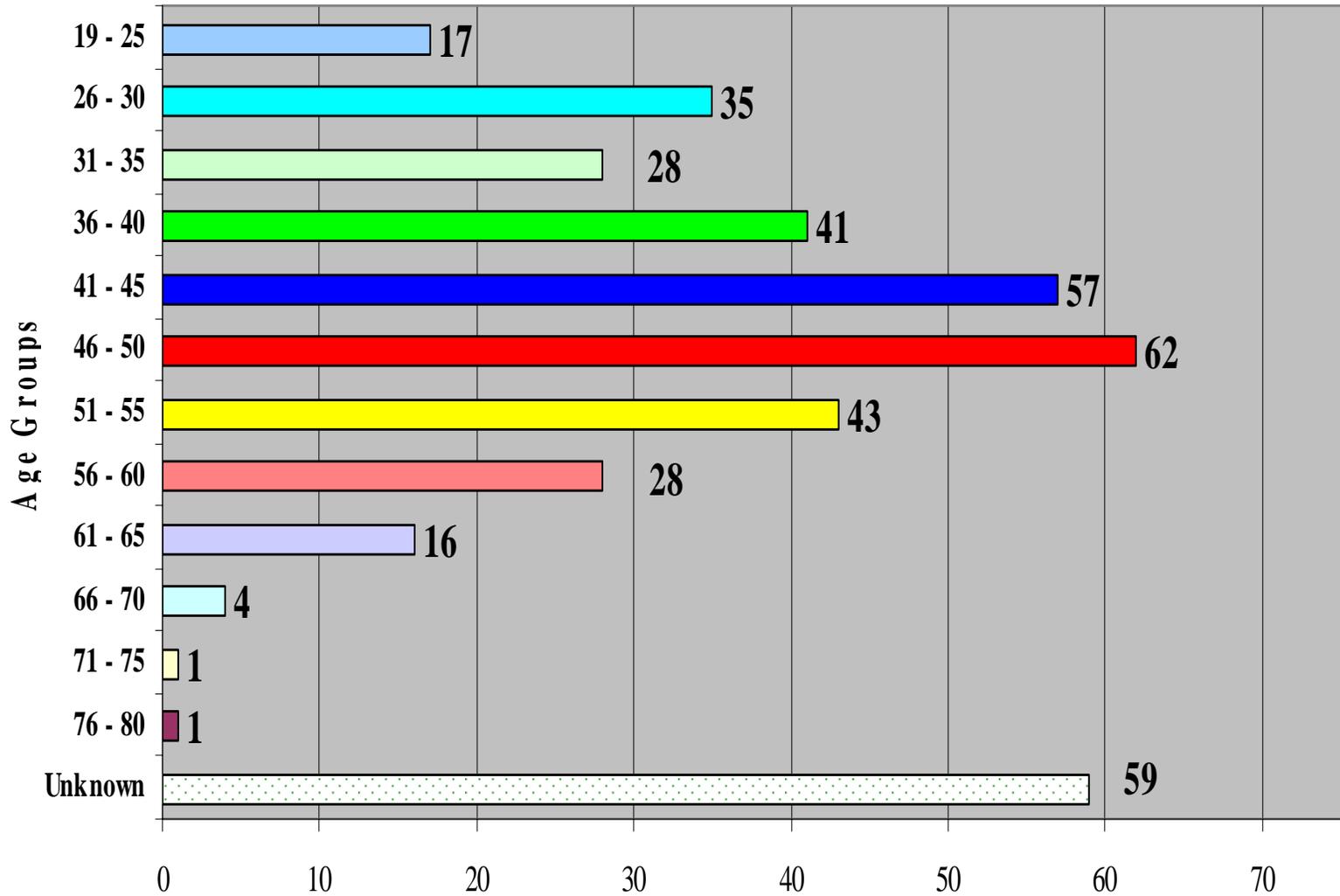
### Mishaps By Day of the Week



1999 through 2003

## Mishaps By Age Distribution

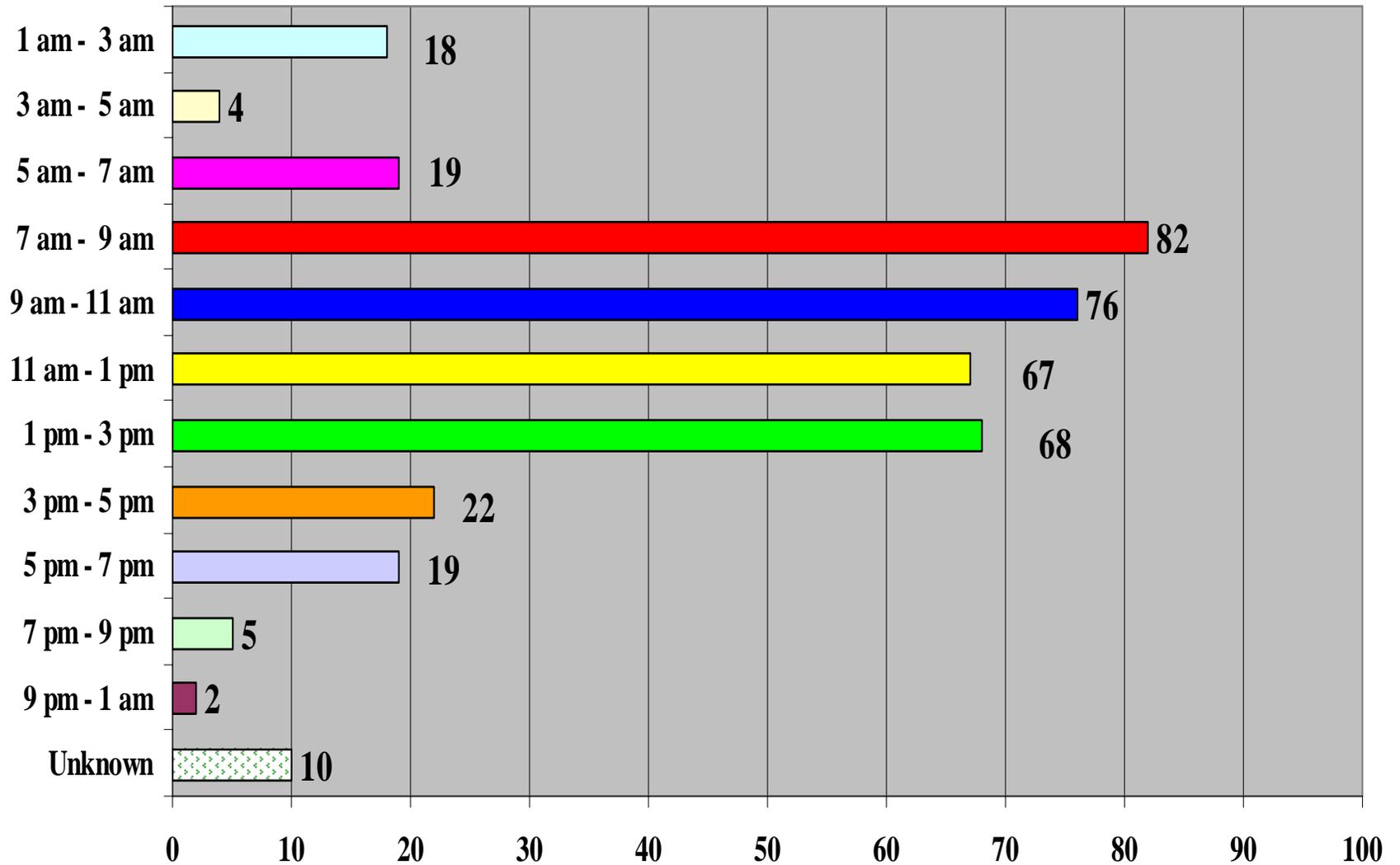
392 Incidents



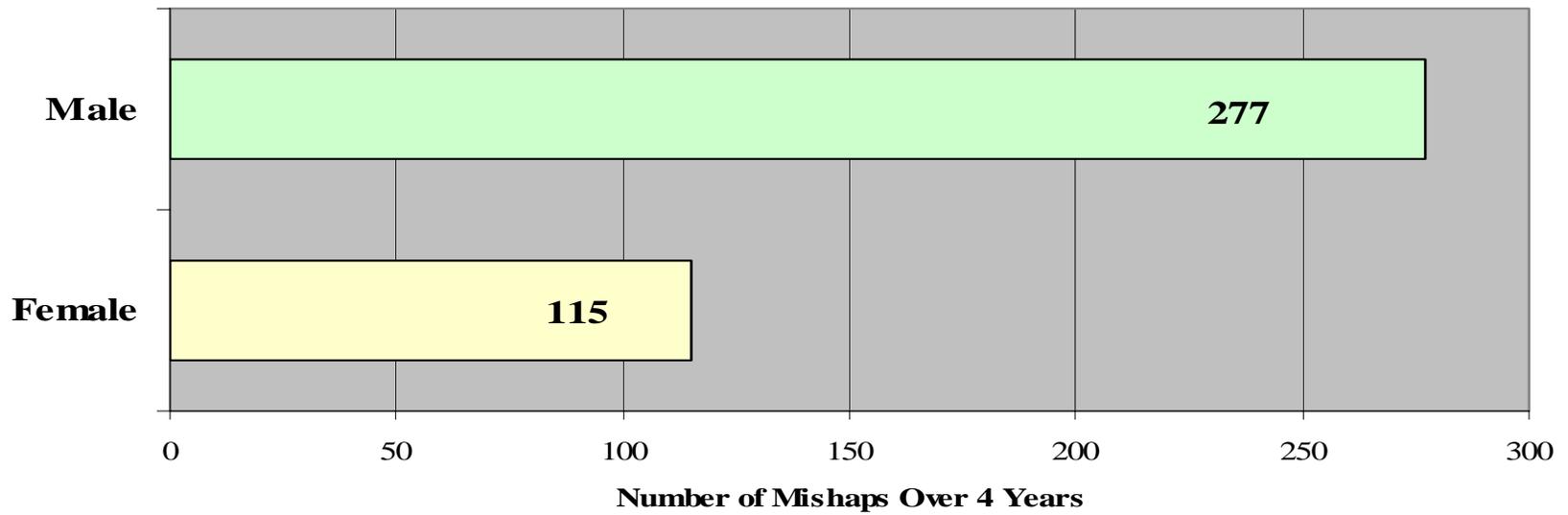
1999 through 2003

### Number of Mishaps By Time of Day

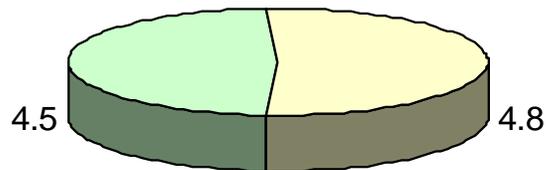
392 Incidents



### Mishaps



### Incident Rate By Workforce Distribution



Rate based on current workforce distribution

Females

Males

# Significant Findings

- **There are a relatively high number of mishaps on Sundays**
  - **Recommended Action:** Increase supervisory and safety surveillance of week end days. Assure personnel are receiving same safety training and awareness as personnel working on regular days.
- **There are a relatively high number of mishaps on 3<sup>rd</sup> shift.**
  - **Recommended Action:** Increase supervisory and safety surveillance during off hour shifts. Assure personnel are receiving same safety training and awareness as personnel working 1<sup>st</sup> shift.
- **Cuts, the number 2 type recordable mishap, has not been well publicized.**
  - **Recommended Action:** Increase awareness of cut hazards and preventive measures.
- **Total Number of mishaps per year is trending down since 2001.**

And finally, trailer hitches can be a “strike  
against” hazard ....

# MSFC Industrial Safety



# BACKUP DATA

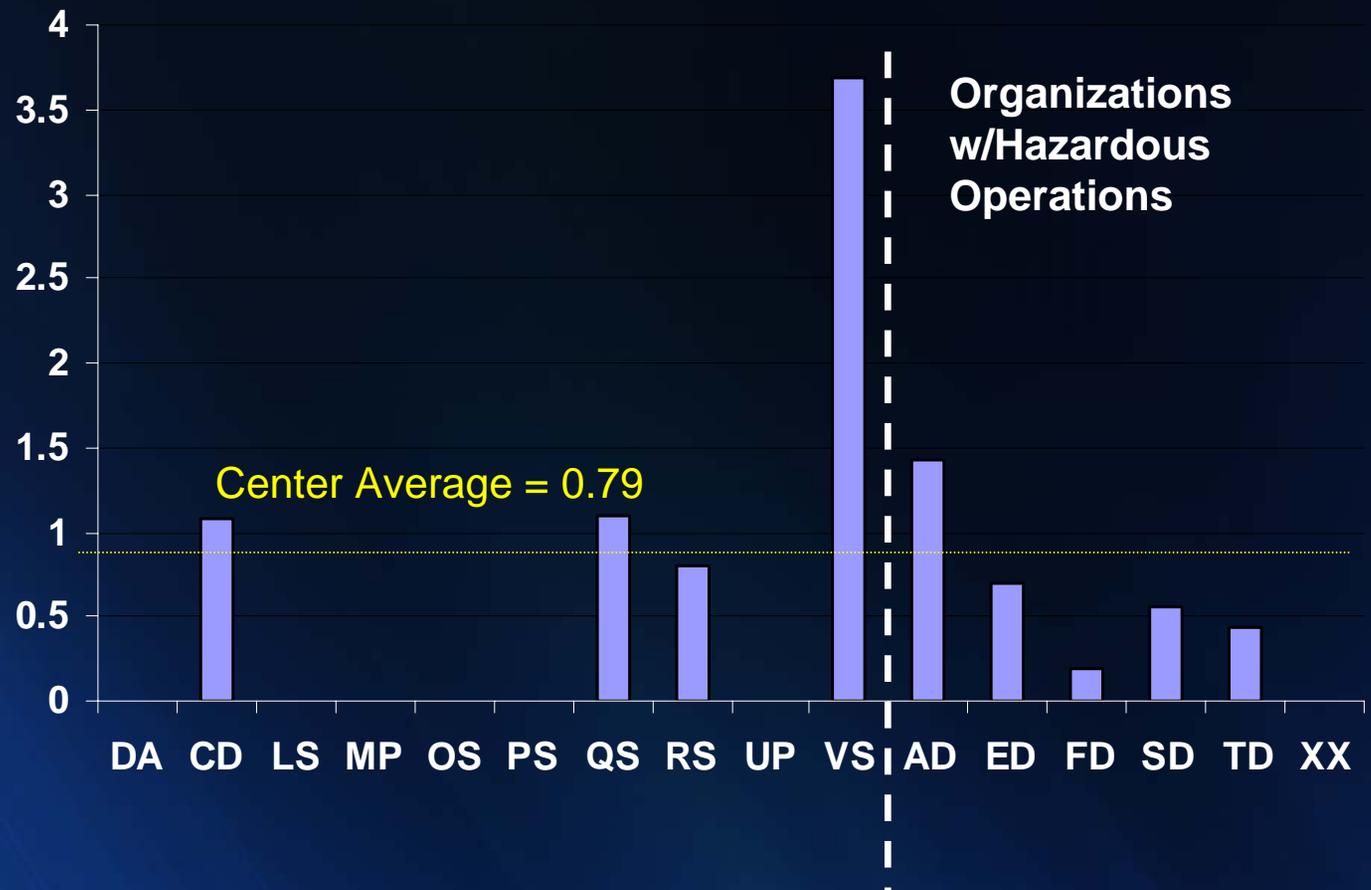
## MSFC Team Metric Key

Metric	Green	Yellow	Red
Fatalities/Disabling Injuries (Type A & B Mishaps)	0	N/A	> 0
Lost-Time Rate	< 0.20	0.20	> 0.20
OSHA Recordable Rate	< 0.9	0.9 - 1.0	> 1.0
All Case Rate ( Incl. First Aids)	< 2.0	2.01 - 3.00	> 3.00
Safety Office Findings Ratio*	> 4.0	3.0 – 4.0	< 3.0
% of Req'd Safety Meetings	> 90%	80 - 90%	< 80%
% of Req'd Safety Visits	> 90%	80 - 90%	< 80%
SCRS Ratio	> 1.5	1.0 – 1.5	< 1.0
Supervisor Findings Ratio*	> 15.0	10.0 – 15.0	< 10.0

\* Ratio of number of findings or concerns to the number of all cases.

# FY03 OSHA Recordable Rates by Organization (Includes Contractors)

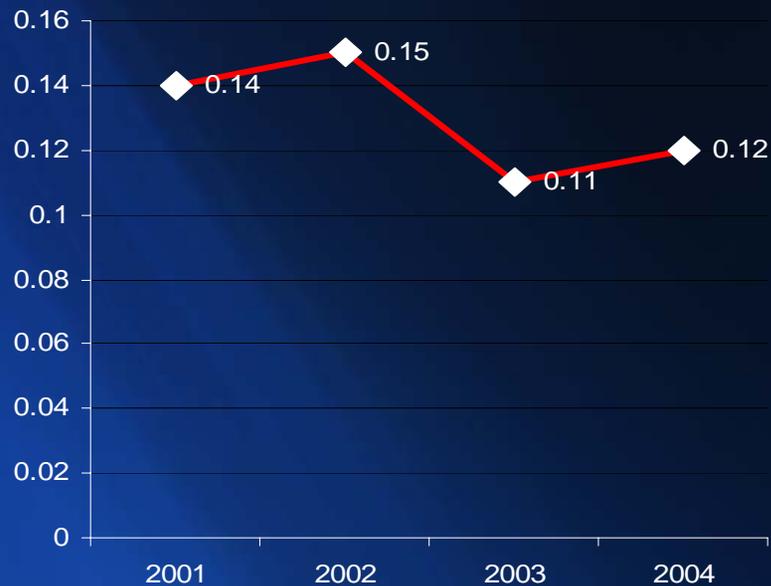
ORG	Hours*
DA	24,458
CD	558,729
LS	22,707
MP	454,266
OS	9,268
PS	254,601
QS	362,422
RS	251,116
UP	260,653
VS	54,183
AD	3,667,956
ED	2,283,783
FD	2,157,278
SD	727,692
TD	907,043
XX	104,969



\*Hours for Current Month Estimated

# Supervisor Safety Visit Findings Trends (08-31-04)

Positive/negative Ratio  
(Higher is better)



Number Per Month

