

Florida Department of Environmental Protection

Storage Tank Regulation Program Issues 2006





Tanks

Registered - 185,761

Closed/removed - 120,841

Regulated USTs – 28,706

Regulated ASTs - 20,359

***As of May, 2006**

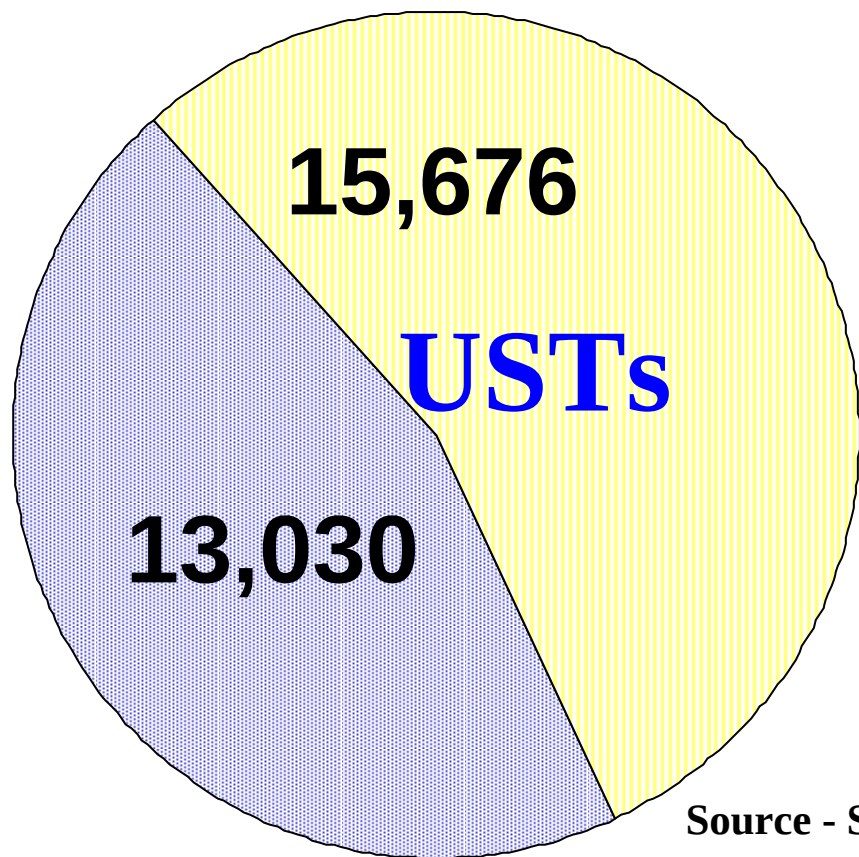


Secondary Containment Upgrade Status

2006

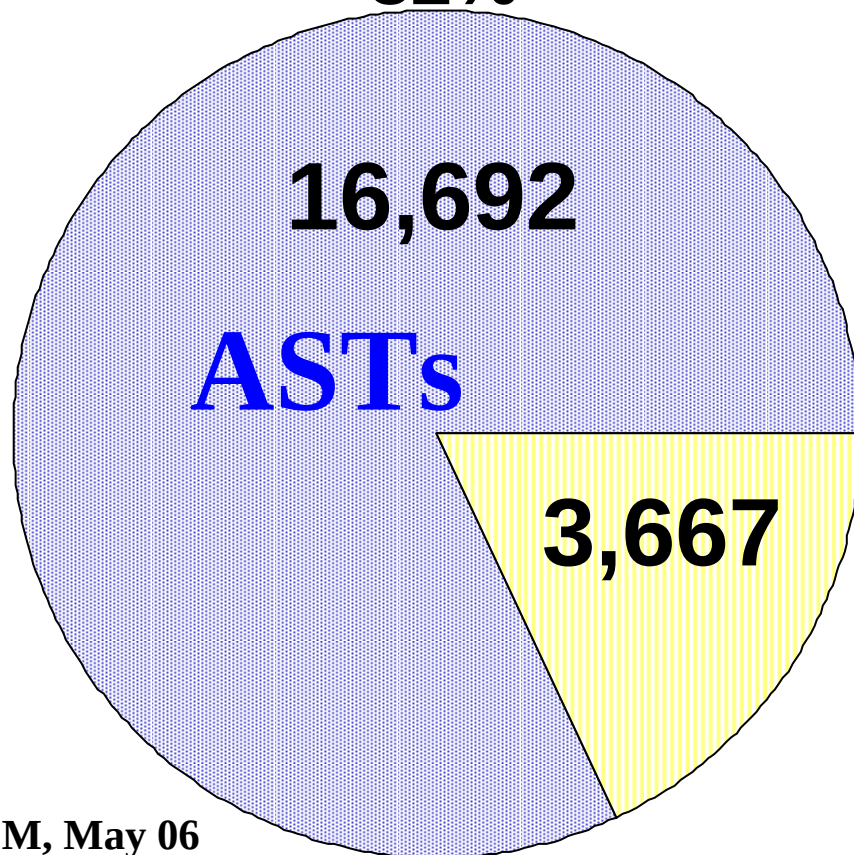
Single-wall USTs

55%



**ASTs with
Secondary Containment**

82%

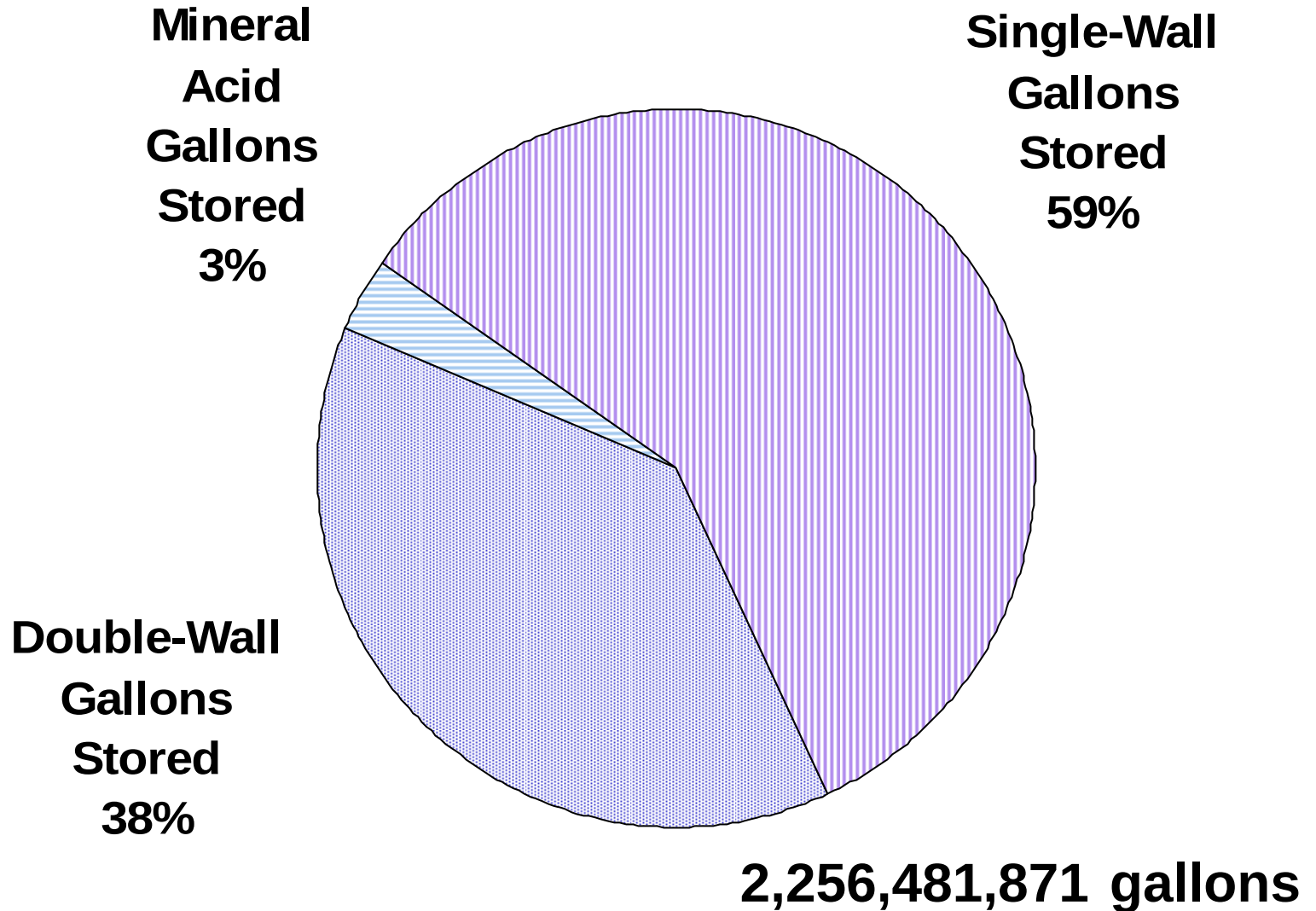


Source - STCM, May 06

Double-wall USTs - 45%

Single-wall ASTs - 18%

Storage Tank Gallons by Tank Type 2006



Source:
STCM
May 06



Facility Statistics

Registered – 54,332

Active Regulated – 20,048

Out-of-Service - 489

With USTs – 9792

With ASTs – 9191

With Both - 477

Source - STCM, May 06



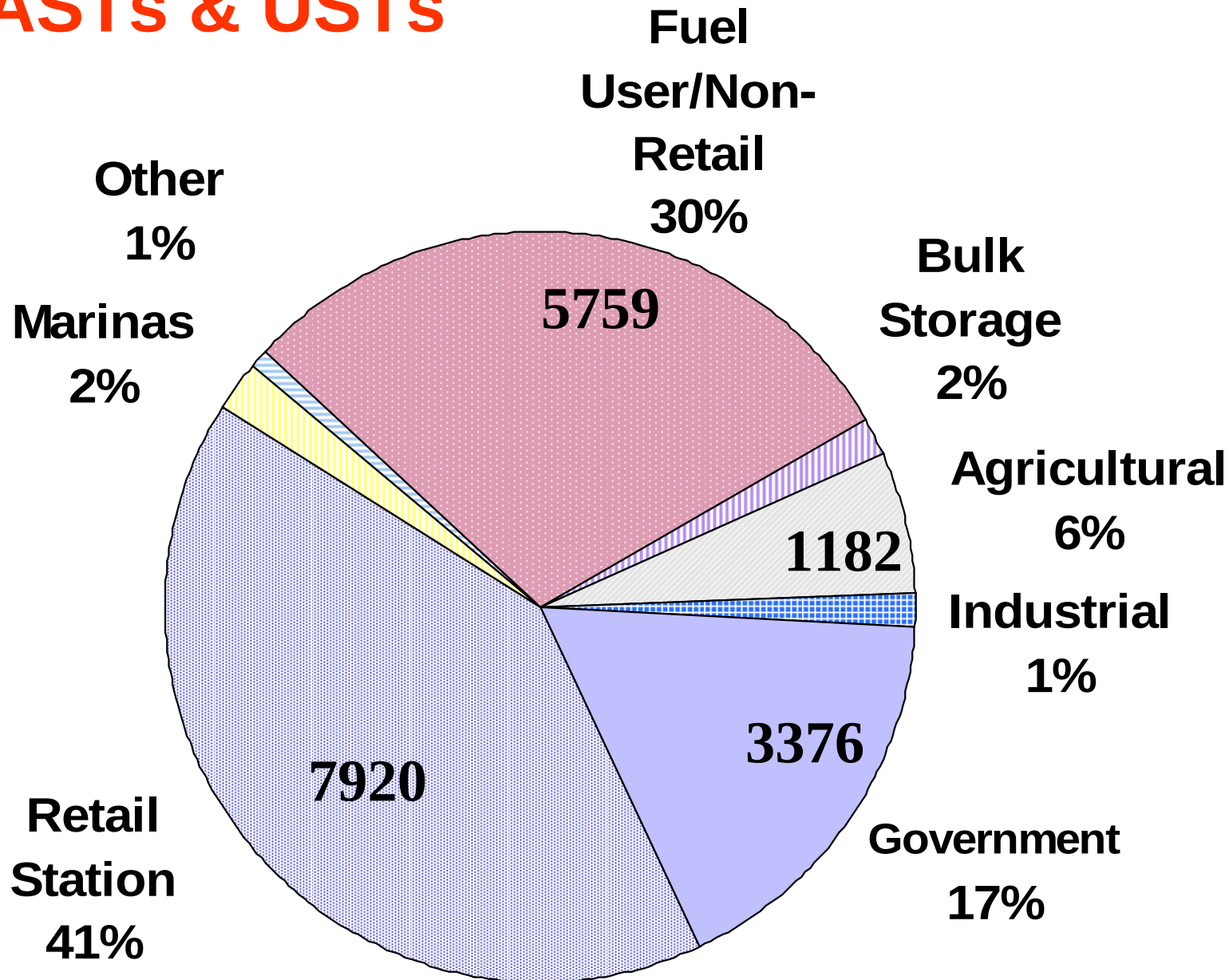
Facility Ownership Statistics



Italy

Storage Tank Ownership by Facility Type

2006 – ASTs & USTs



Source:
STCM
May 06

Program Accomplishments State Fiscal Year 2005-2006



Austria

- Deployment of FIRST
- Continued Improvements with SNC Resolution
- Phase II Rulemaking – Public Rule Workshop for 761 & 762



FIRST

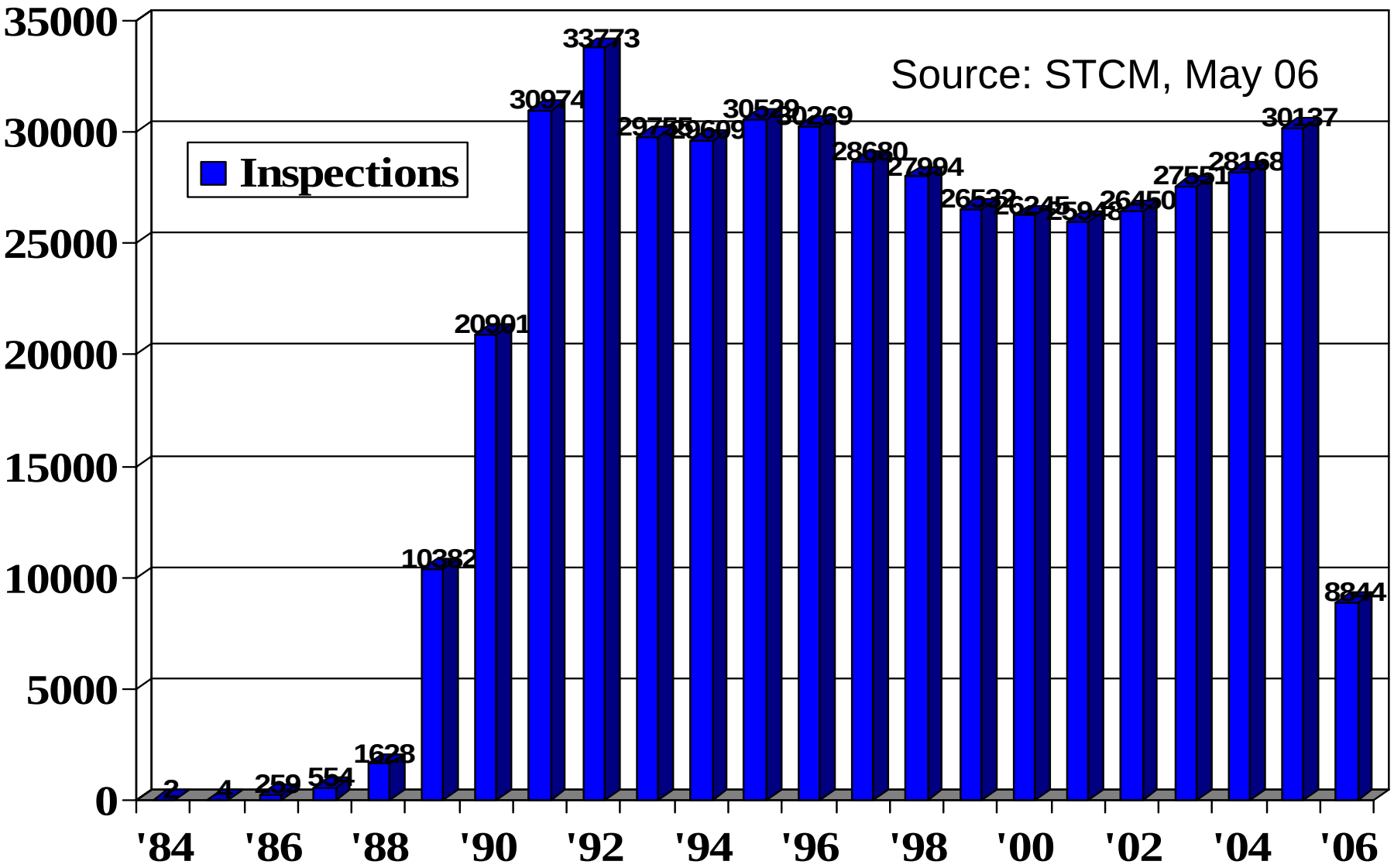
Florida Inspection Reporting for Storage Tanks



- **Piping & Shop-fabricated AST Training**
- **Revised Tanks Program Training Process**
- **Increased the Number of Inspections**



Total Facility Inspections Performed in Florida



475,188 Total Inspections Performed

- **Completed third year of the Leak Autopsy Study – International Conference Presentations, Reference Standard Committee, Technical Papers**

Utah

- Did not apply for EPA UST & LUST grants
- Assisted with post-hurricane fuel-availability efforts
- Participated on International Reference Standard Committees

Storage Tank Program Priorities in Florida - FFY-2006-2007



Italy

- **FIRST Program – Complete Phase II Enhancements – Incorporate New Rule Changes, Enforcement, and Performance Improvements**



- **Implement Training Tracking Matrix for County Inspectors**



A photograph of a green highway directional sign with the word "Hell" in white, sans-serif capital letters. The sign is mounted on two metal poles and is heavily encrusted with long, thin icicles hanging from its bottom edge. The background is a blurred, overcast landscape.

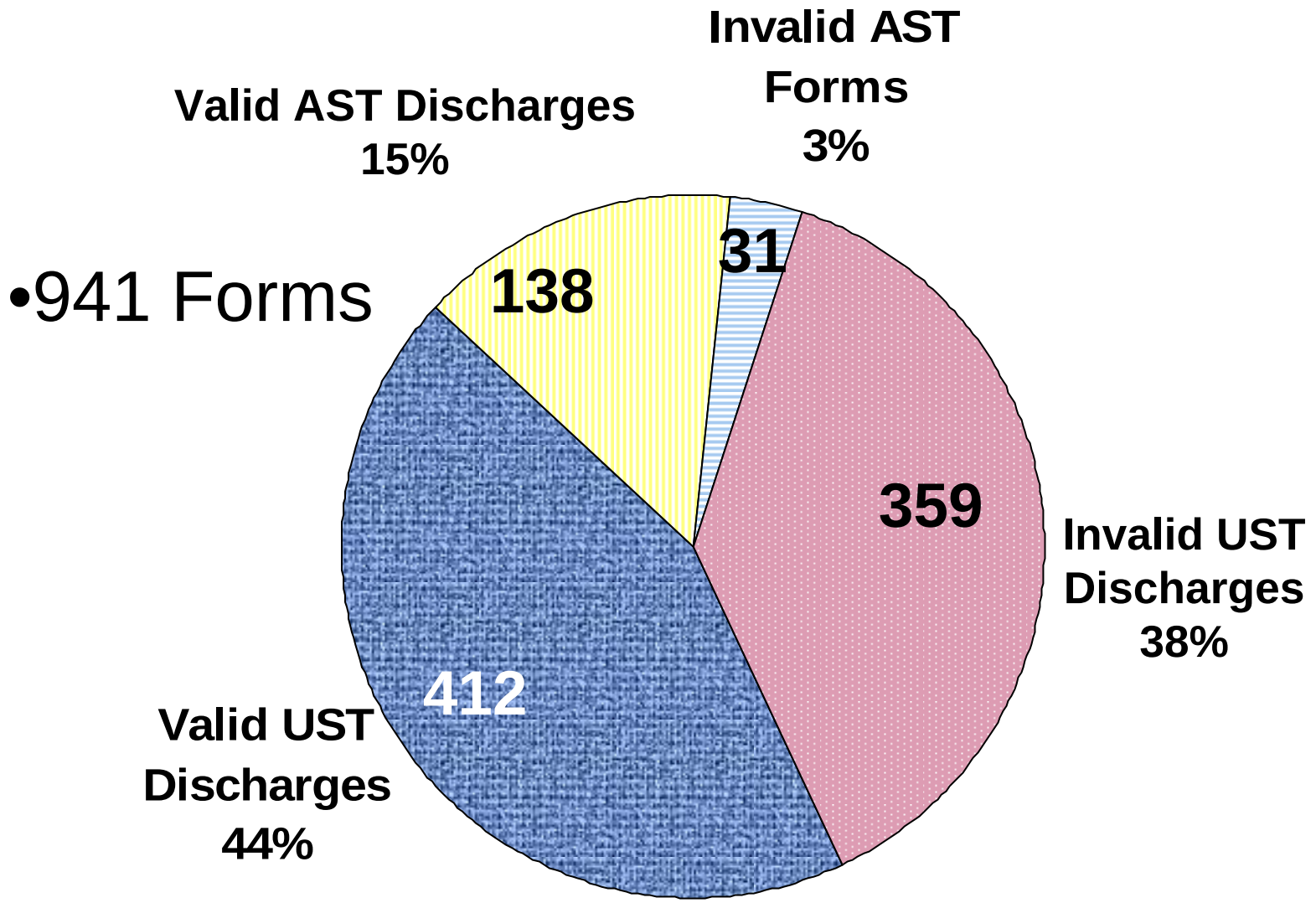
Hell

- **Complete Phase II Rulemaking**
- **Begin Phase 3 Rulemaking**

• Leak Autopsy Study Improvements

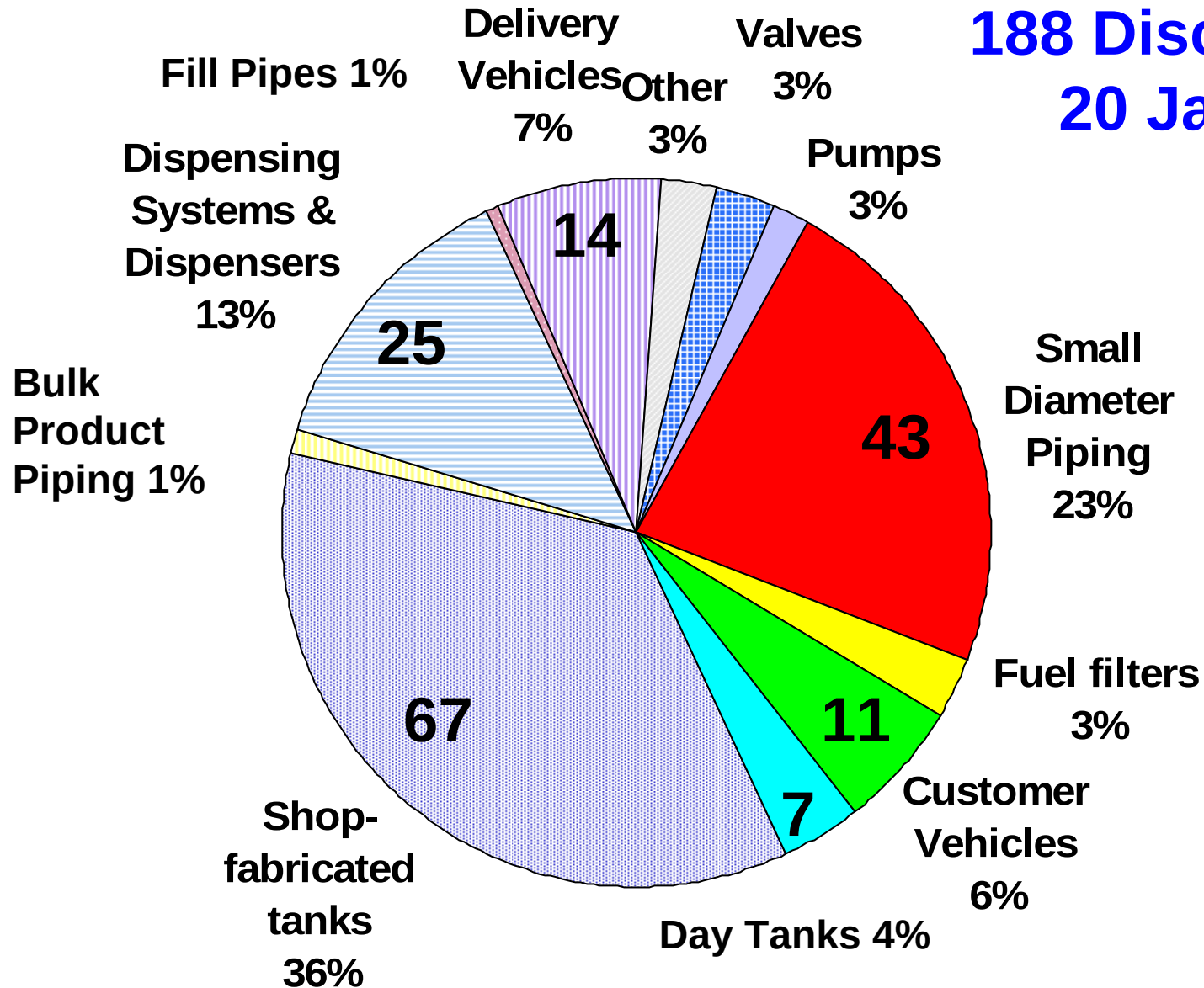


Florida Leak Autopsy Forms 1 Jan 03 – 15 Mar 06



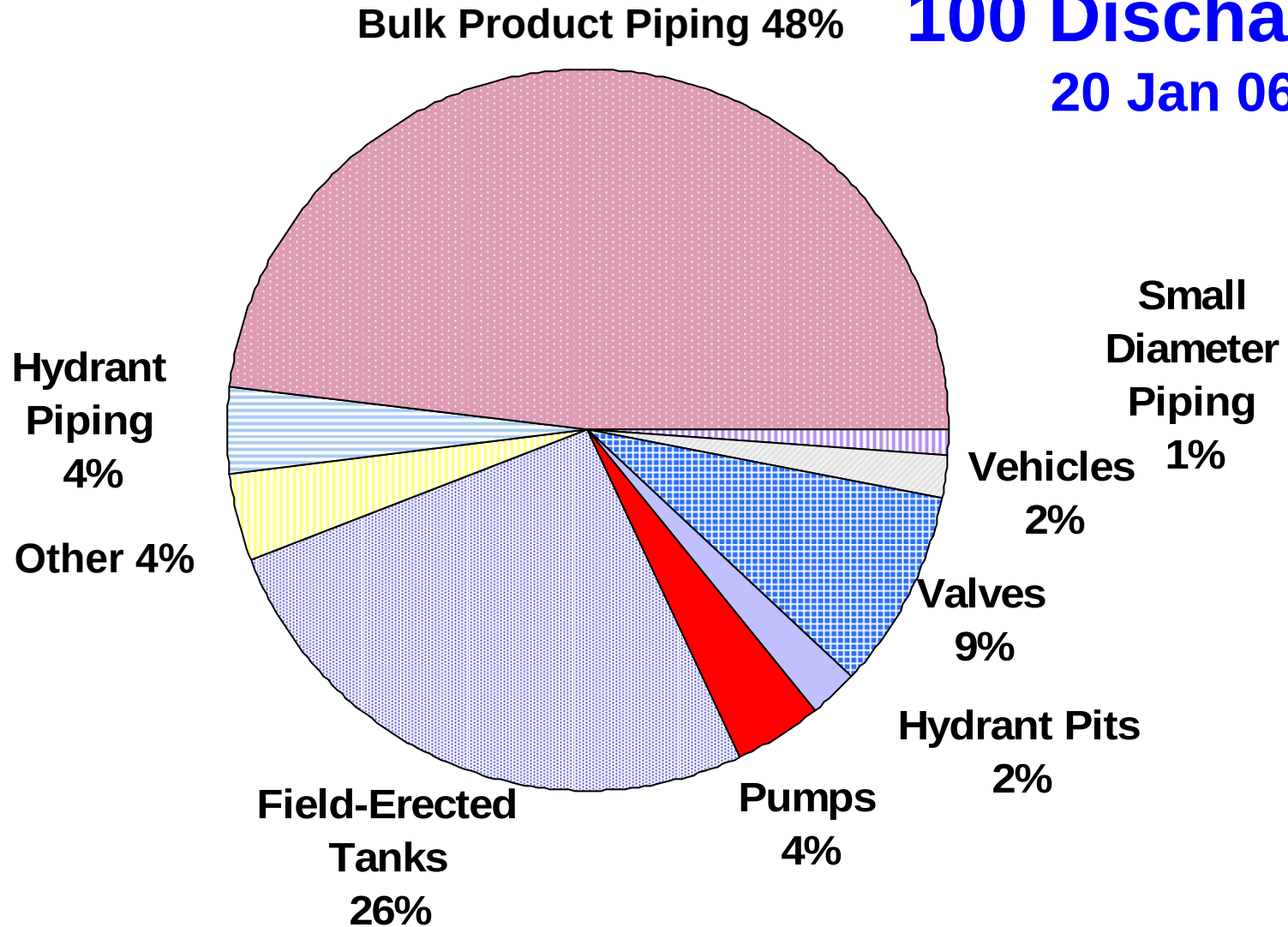
Shop-fabricated AST Sources

188 Discharges
20 Jan 06



Field-Erected AST Sources

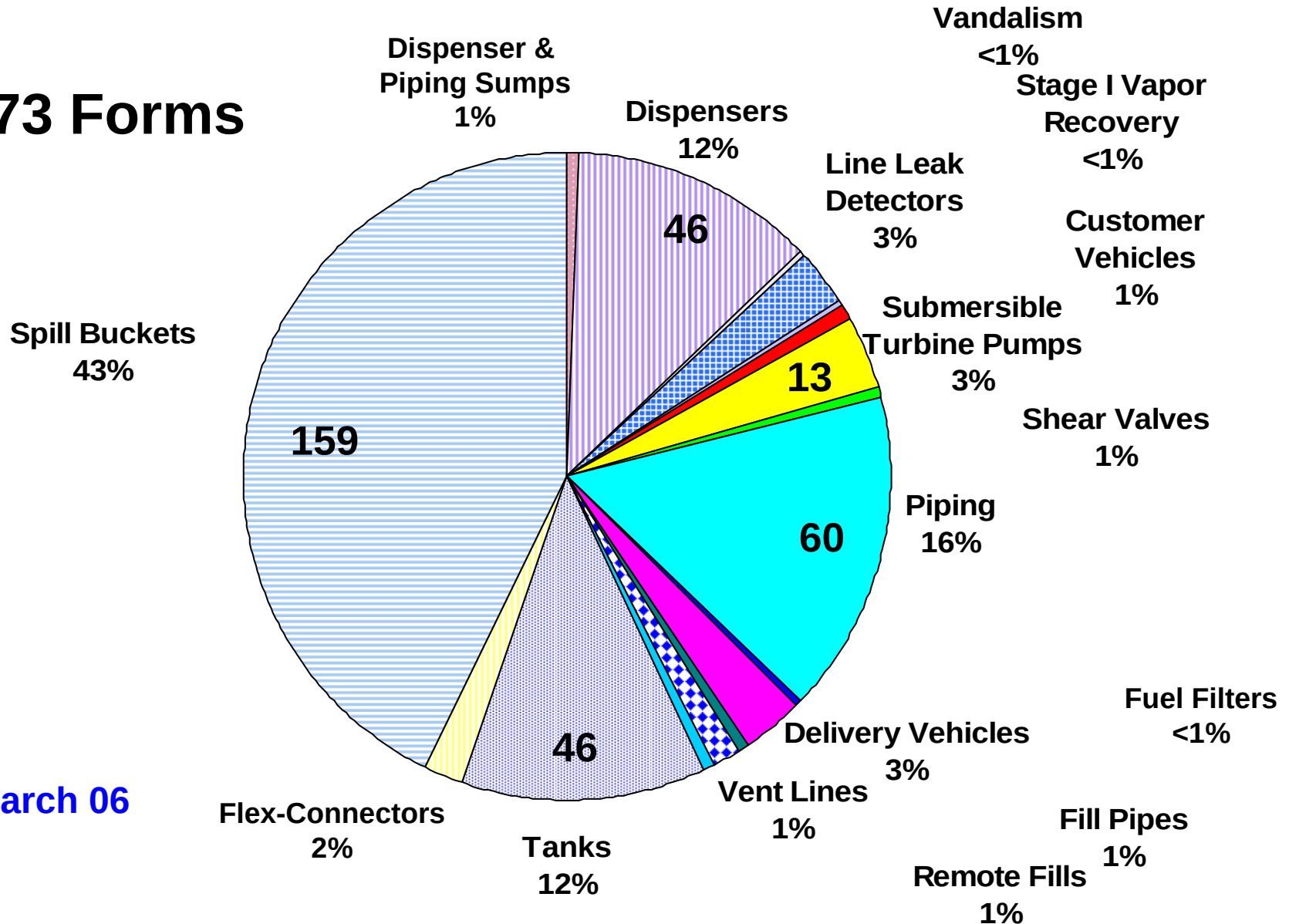
100 Discharges
20 Jan 06



UST Leak Sources in Florida

373 Forms

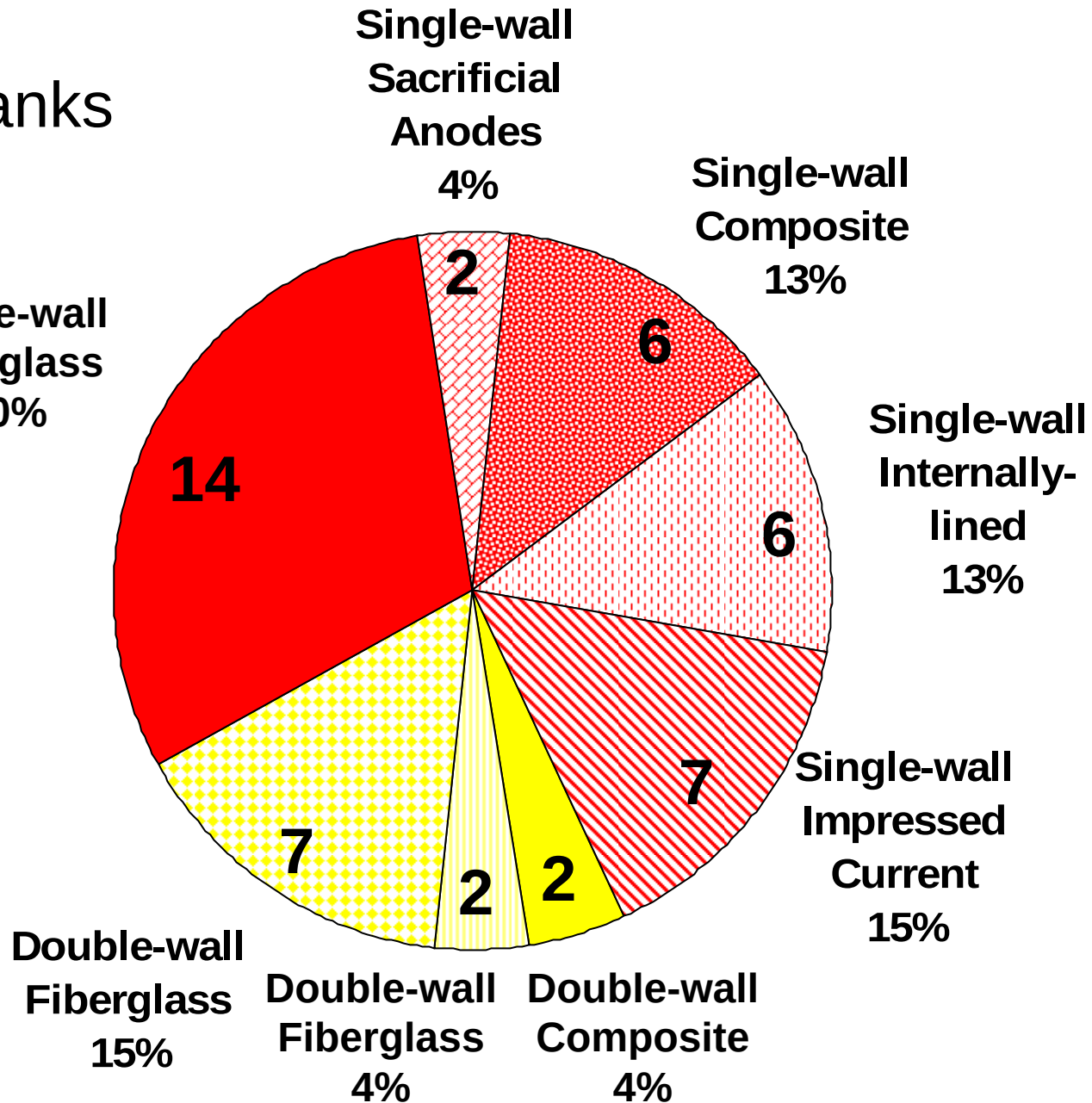
March 06



USTs –Tanks as the Source, Type of Tanks

46 Tanks

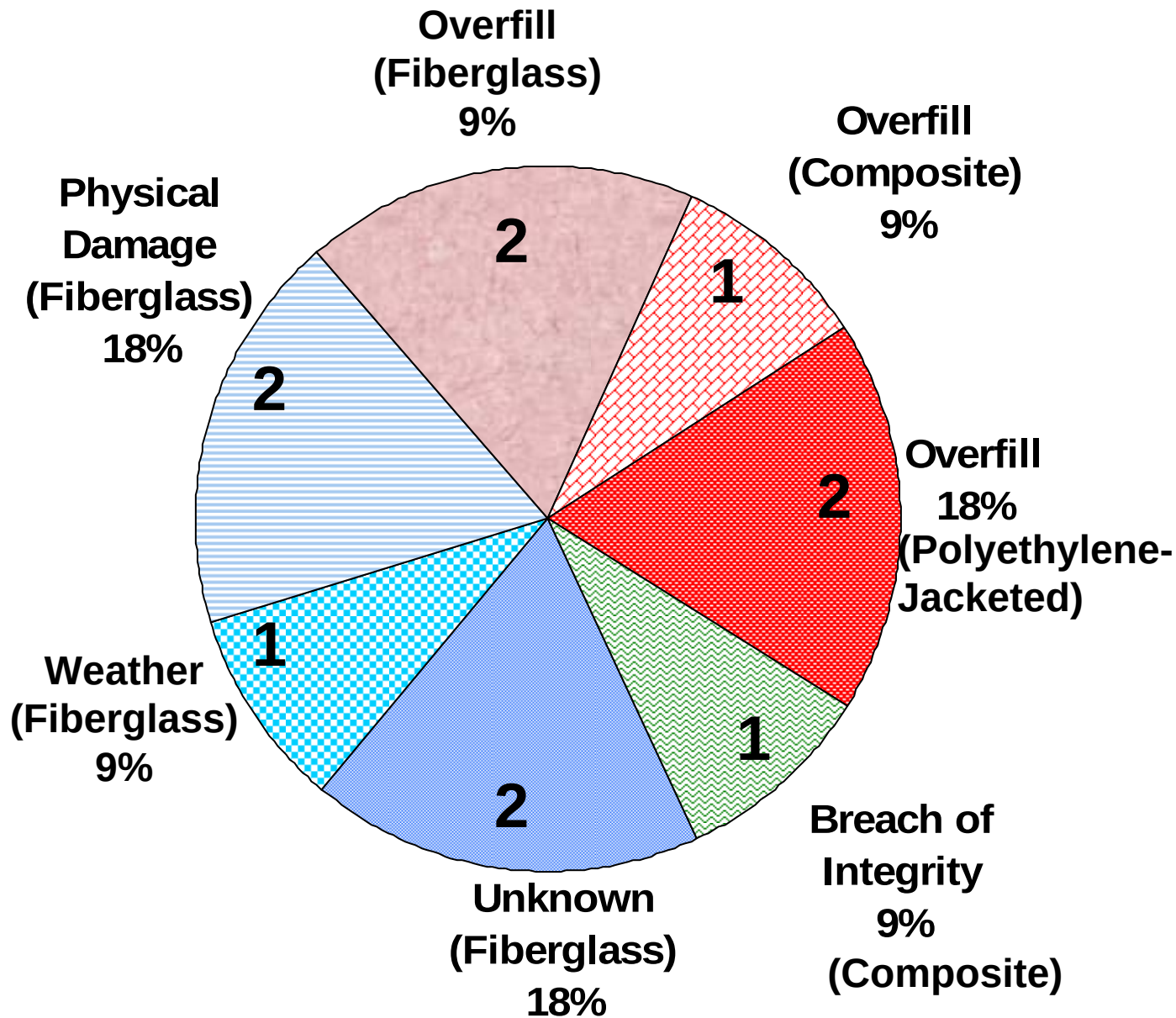
March 06





**76% of
Discharges from
USTs are from
Single-wall USTs**

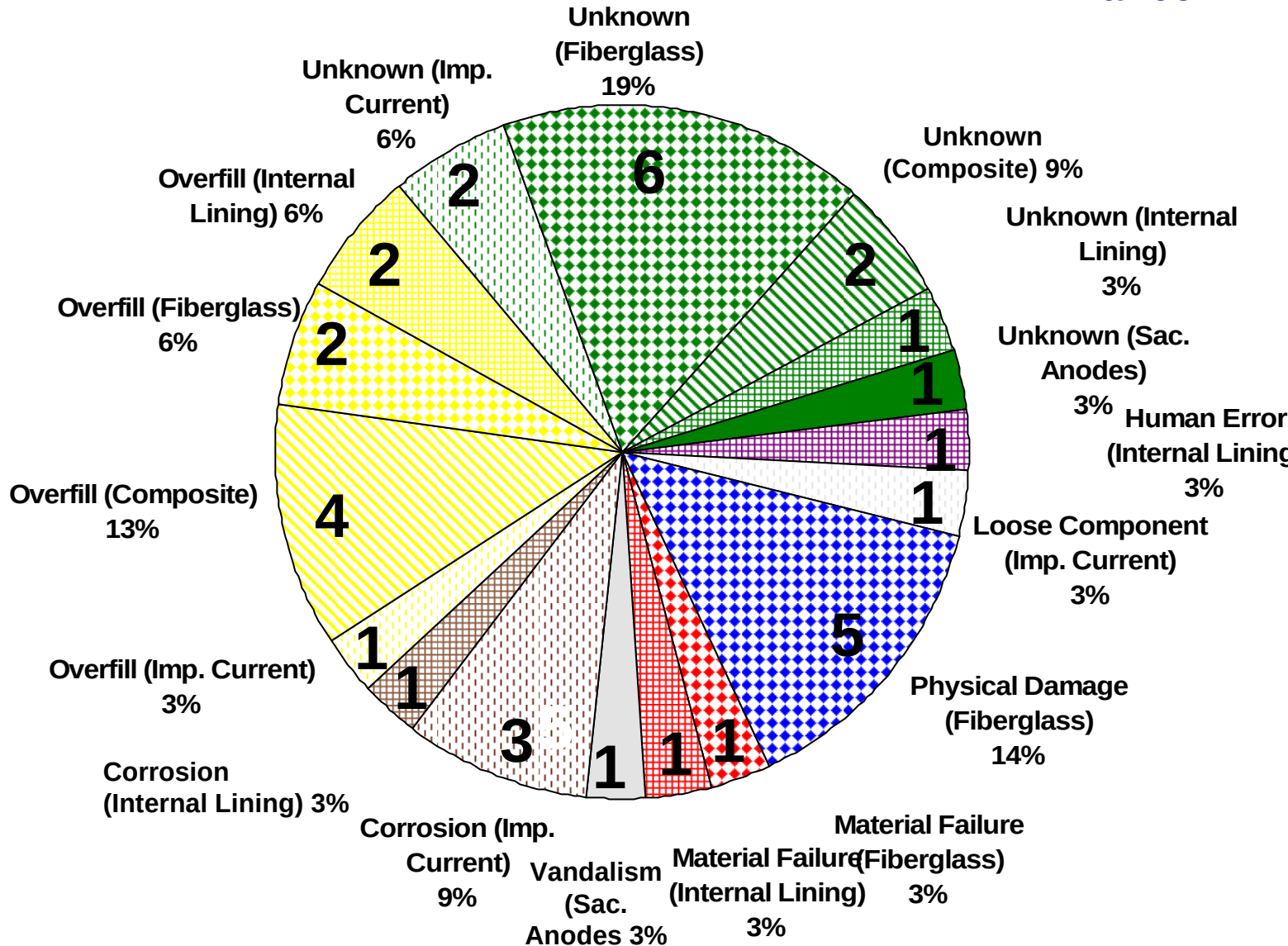
USTs – Double-wall USTs as the Source, Causes



USTs – Single-wall USTs as the Source, Causes

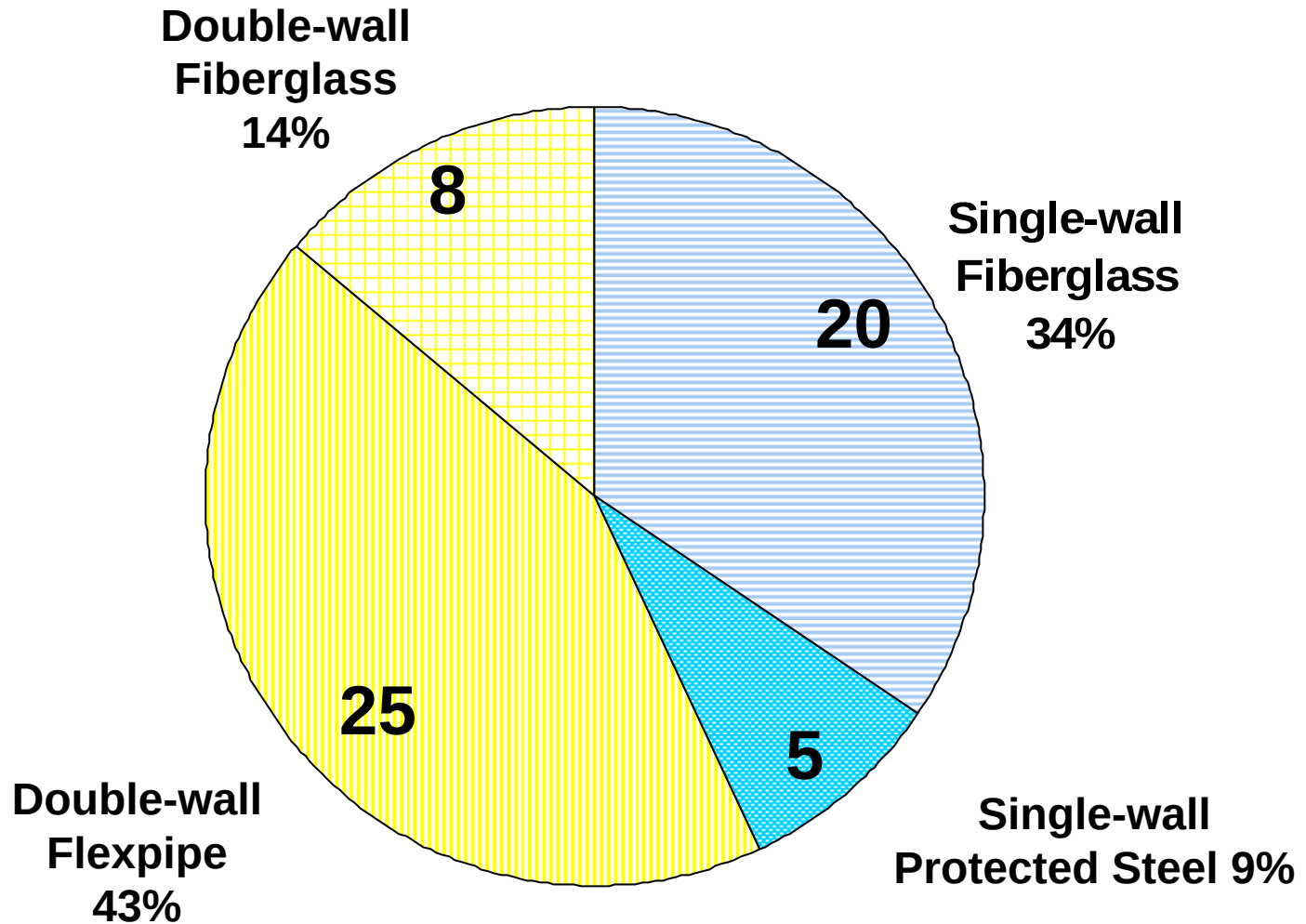
35 SW Tanks

Mar 06

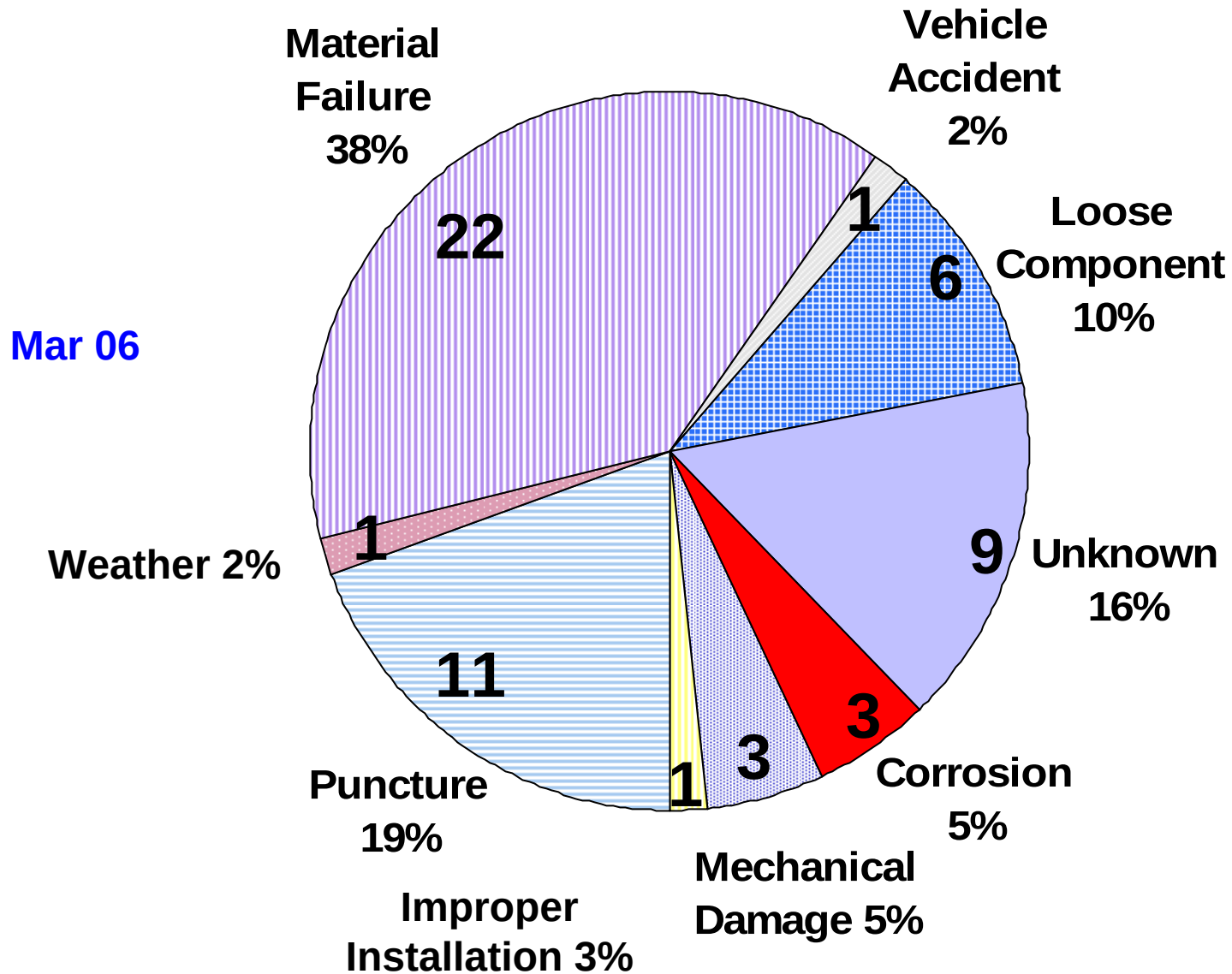


USTs –Piping as the Source, Type of Piping

Mar 06

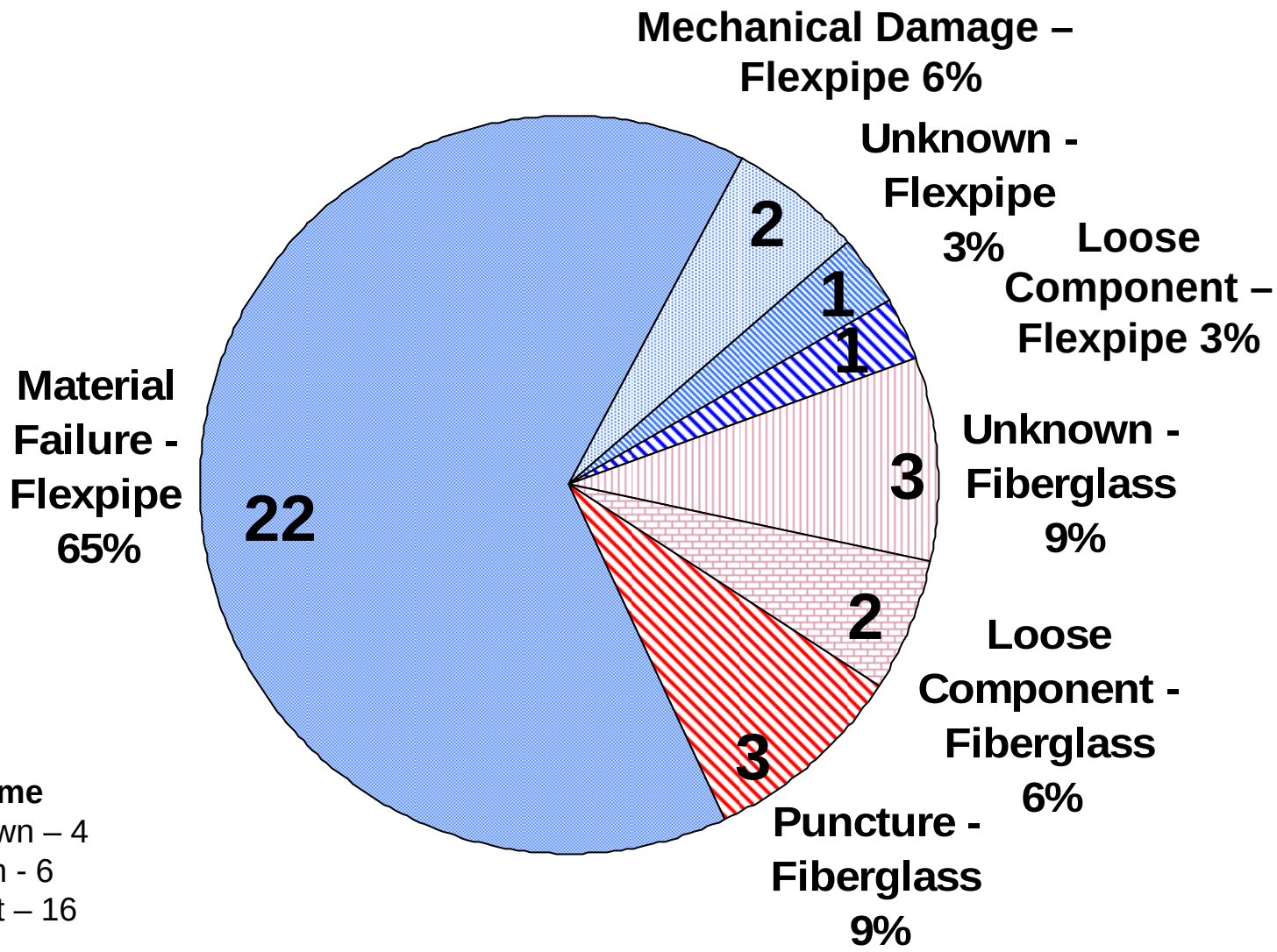


USTs - Source of Small Diameter Piping, Causes



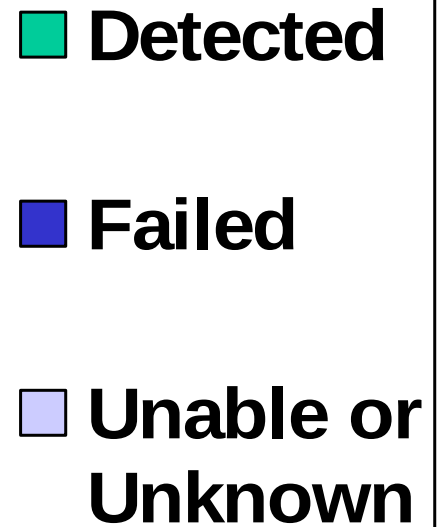
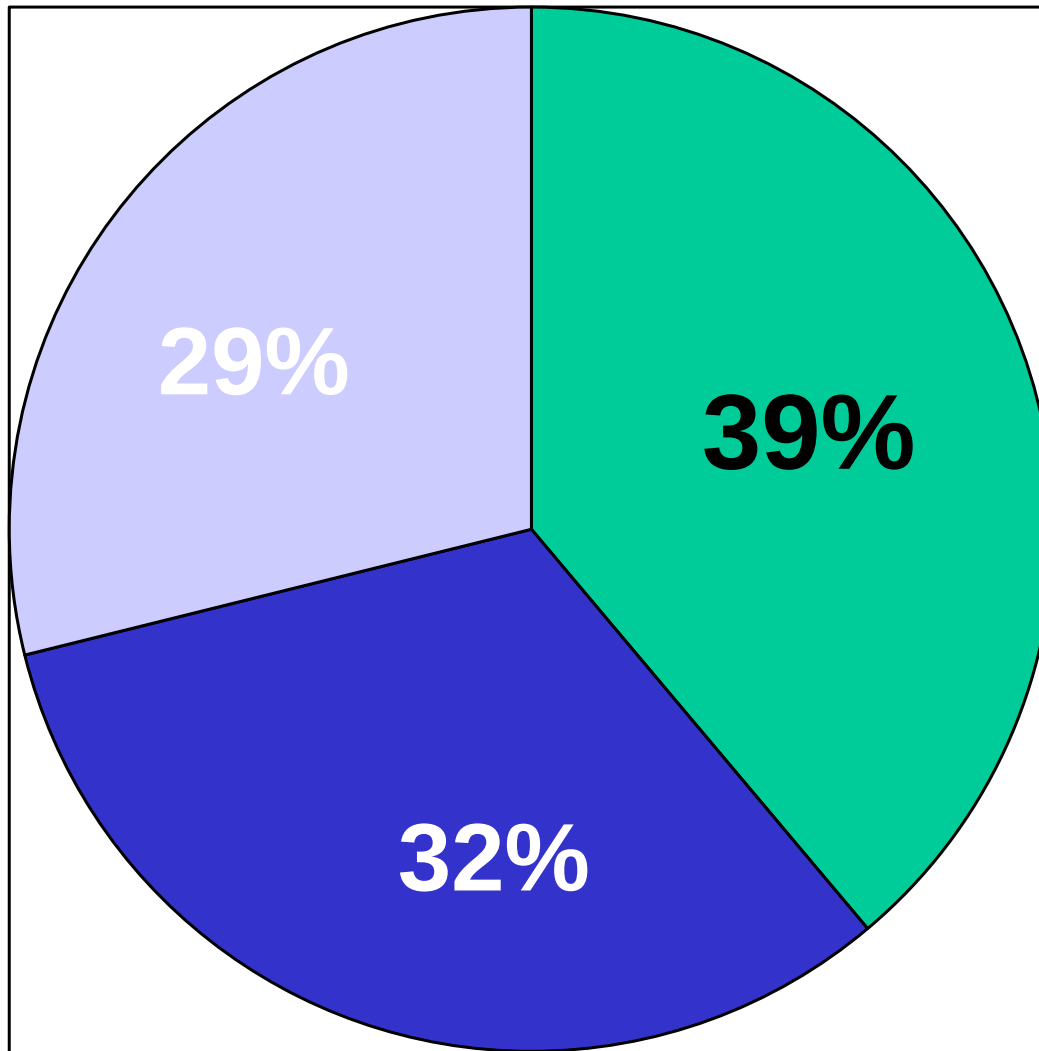
Gallons Lost - >9644 gallons

USTs - Source - Small Diameter Double-wall Piping, Causes



Manufacturer Name
Fiberglass Unknown – 4
Flexpipe Unknown - 6
Total Containment – 16
Ameron – 3
Smith – 2
Western - 1

Success of Leak Detection



The Top Three Sources of Discharges in Florida



- Prioritize Inspections for County Inspectors for Installations and Closures to Accommodate Increase from Upgrade Deadlines



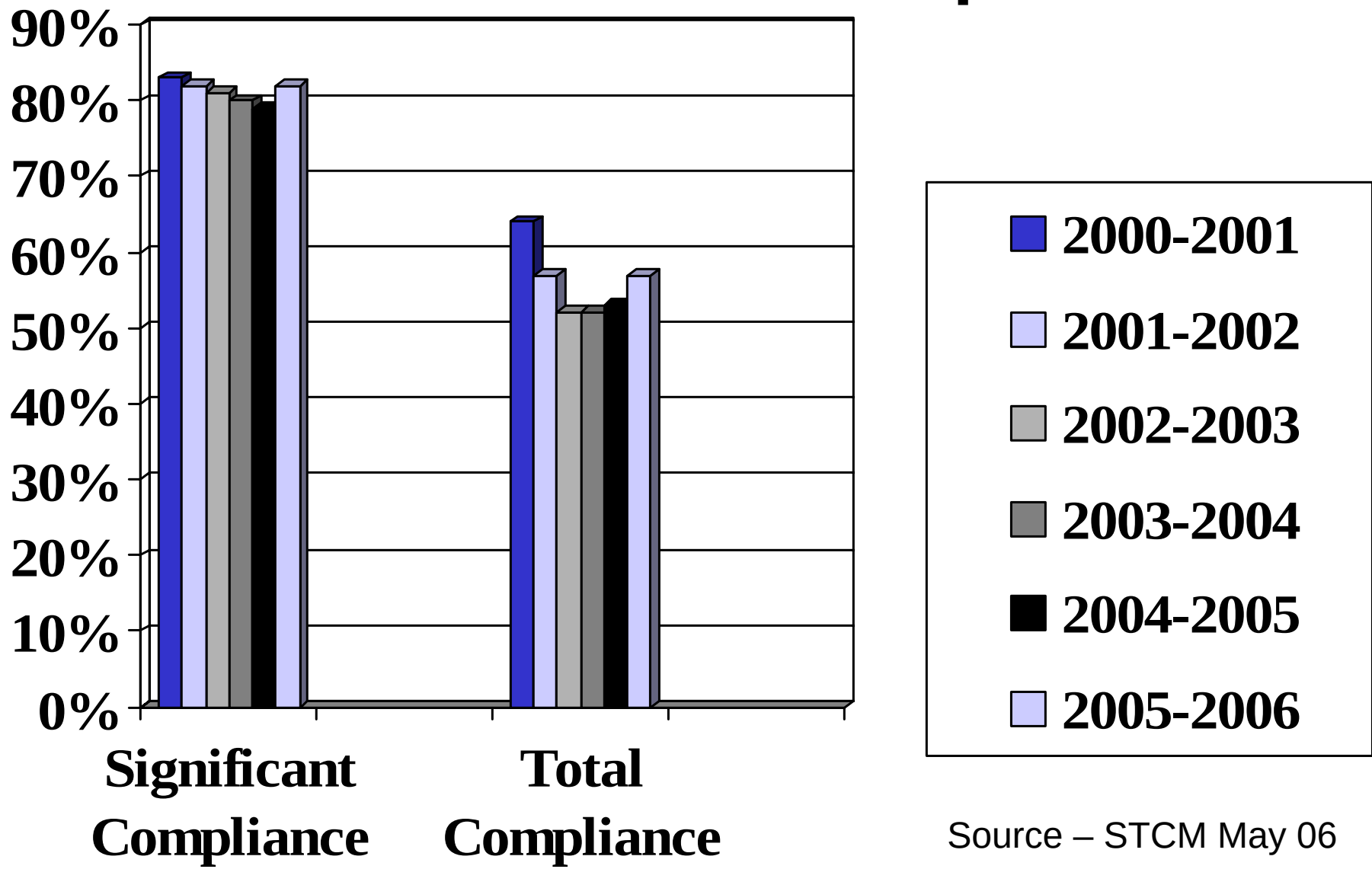
Germany



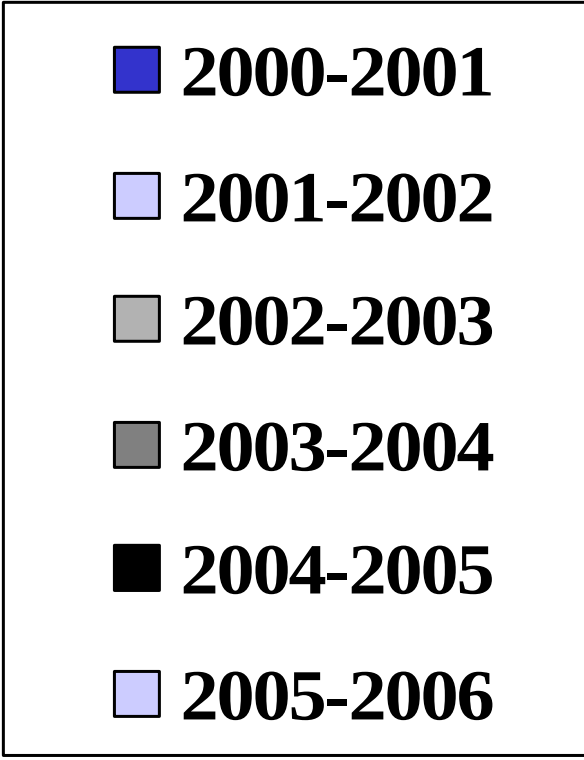
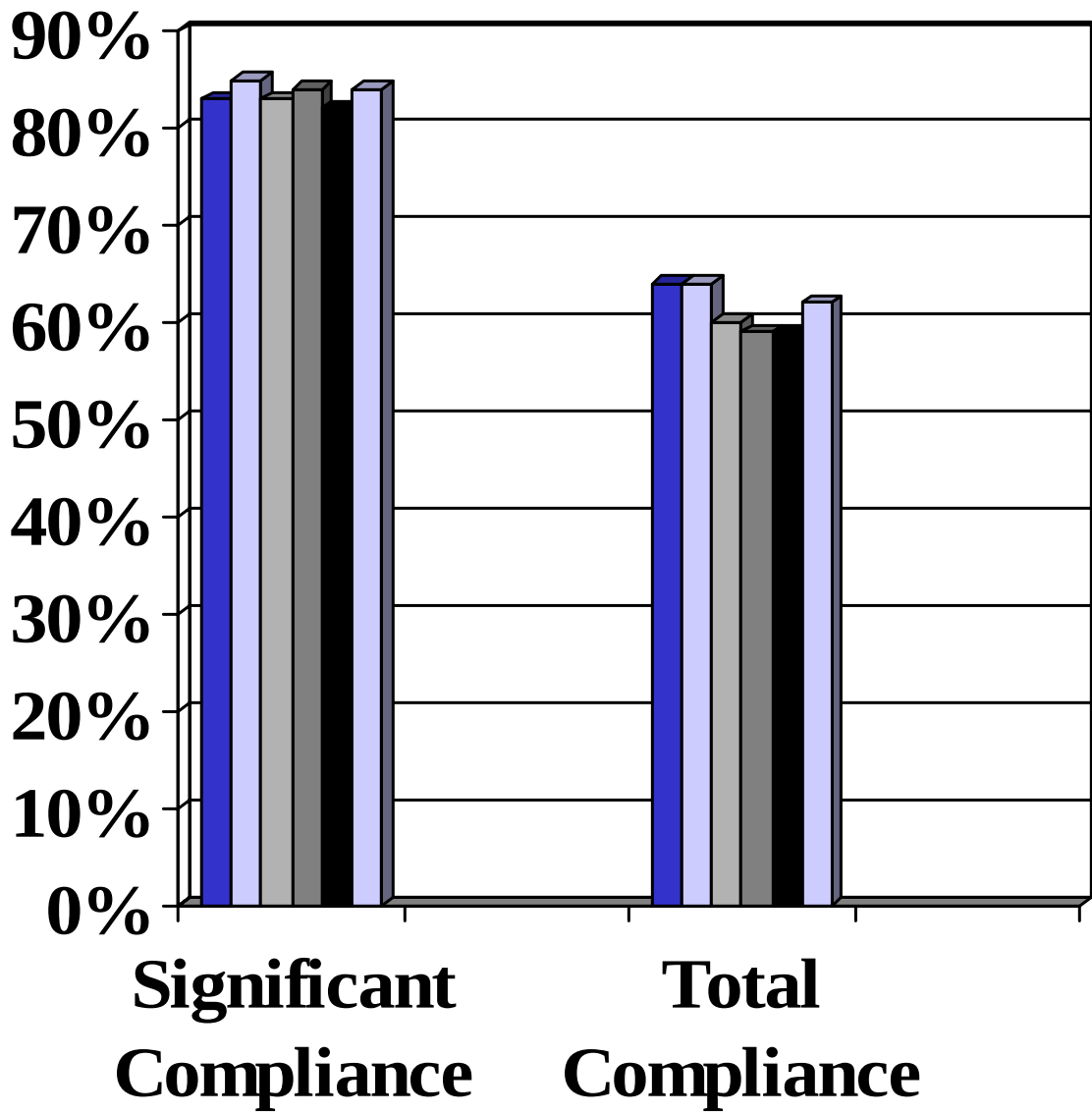
- **Increase Compliance Rates**



Compliance Rates – Initial Contracted Inspections



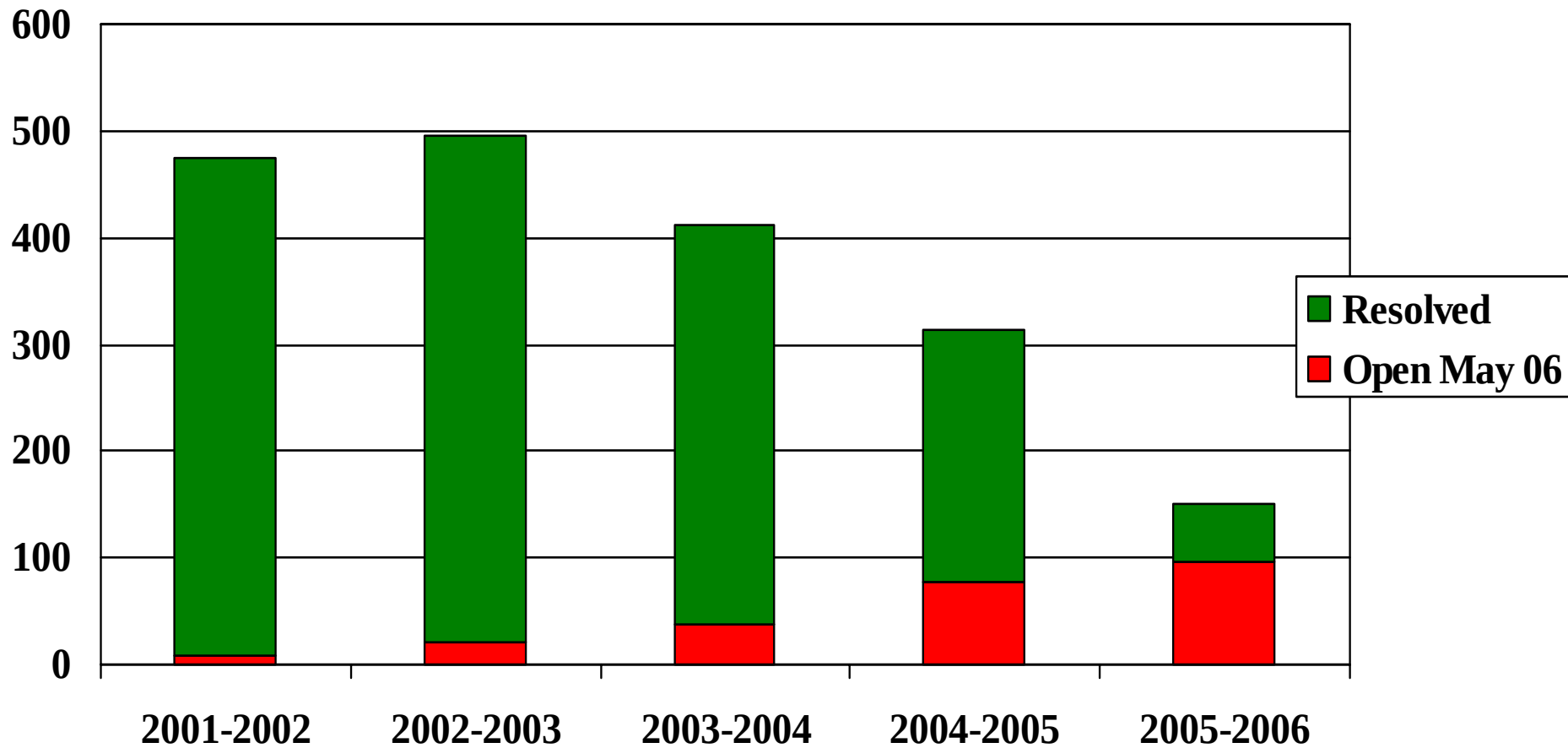
Compliance Rates – All Inspection Types



Source – STCM May 06

SNC-A Resolution

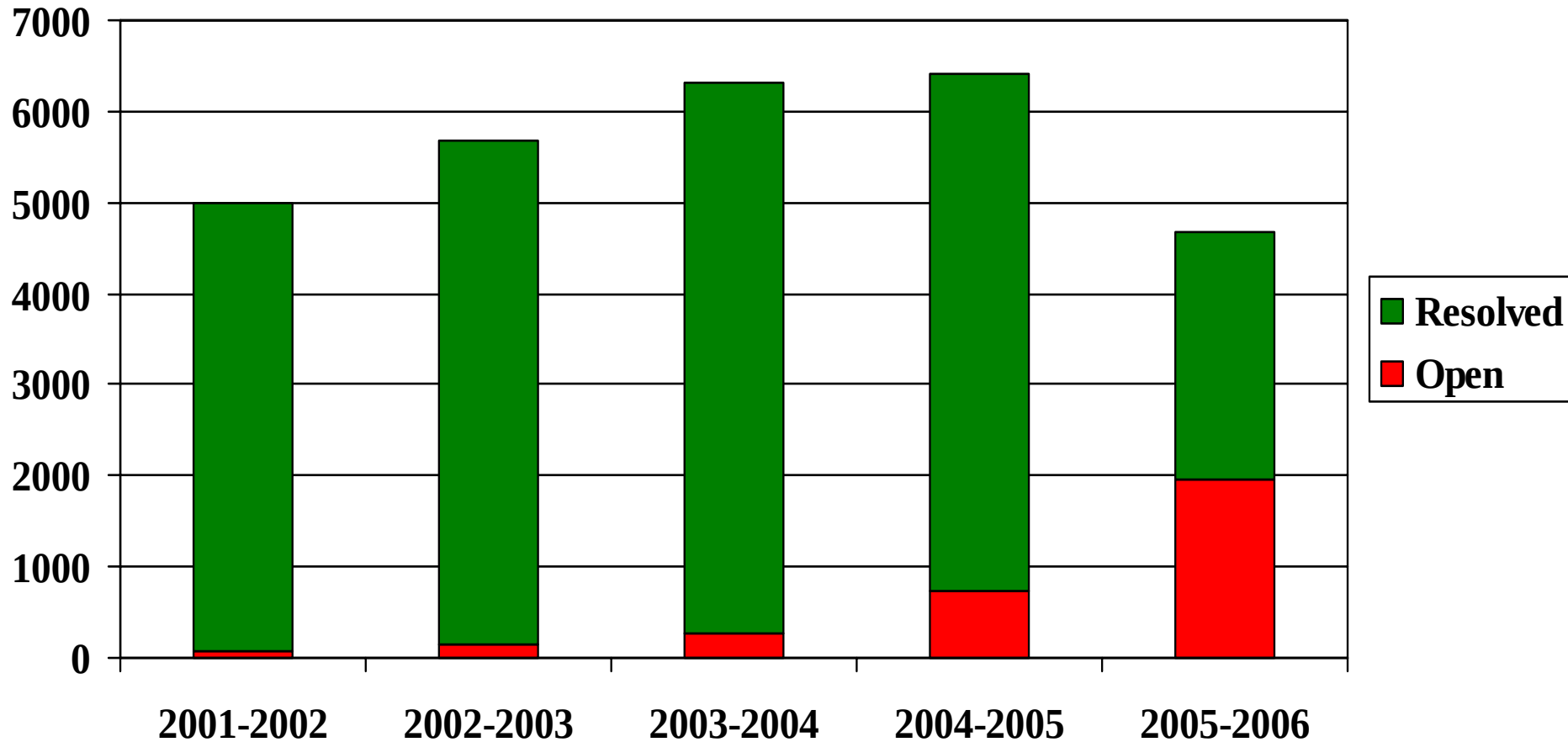
Significance Level - A



Source – STCM May 06

SNC-B Resolution

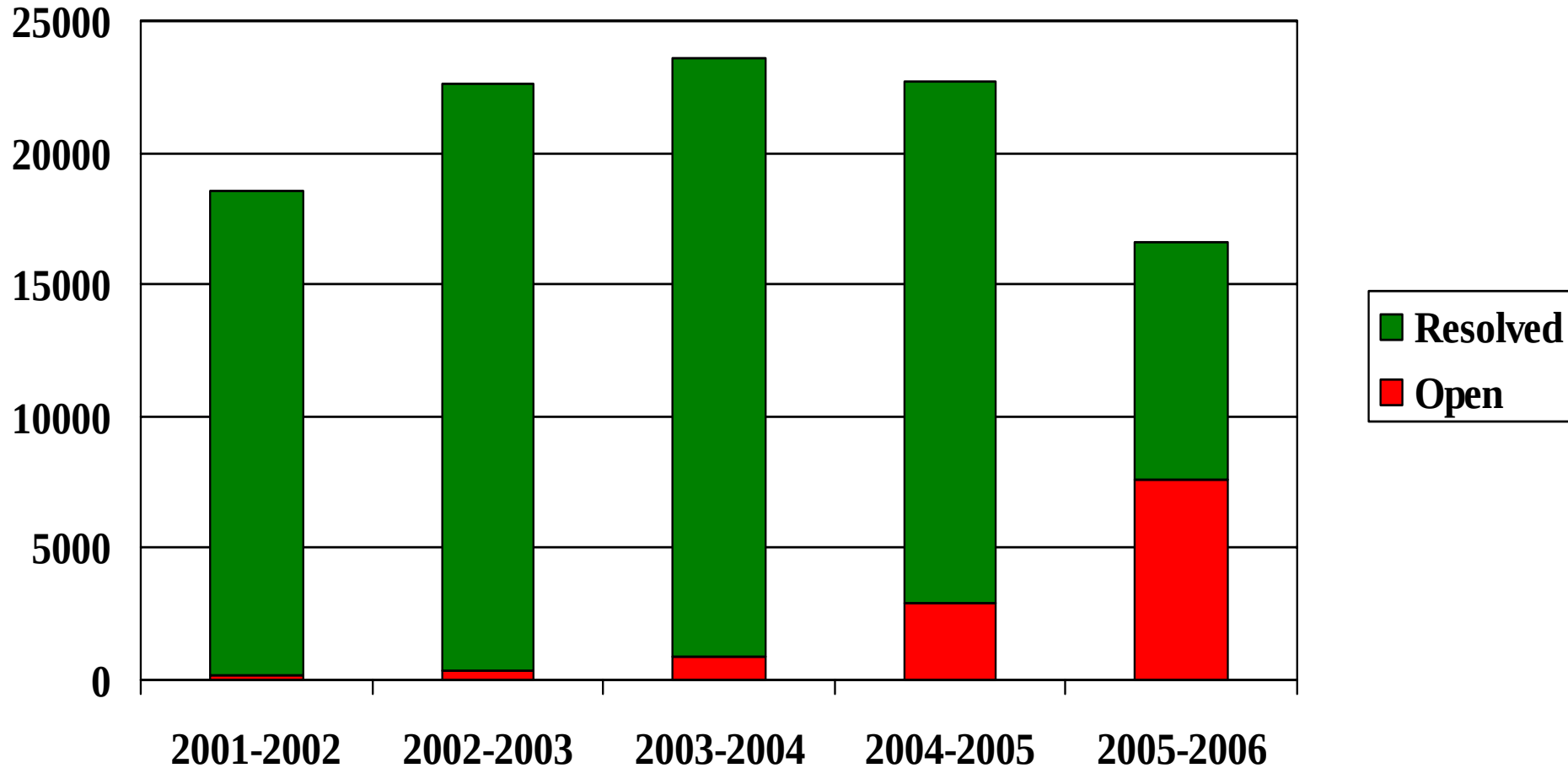
Significance Level - B



Source – STCM May 06

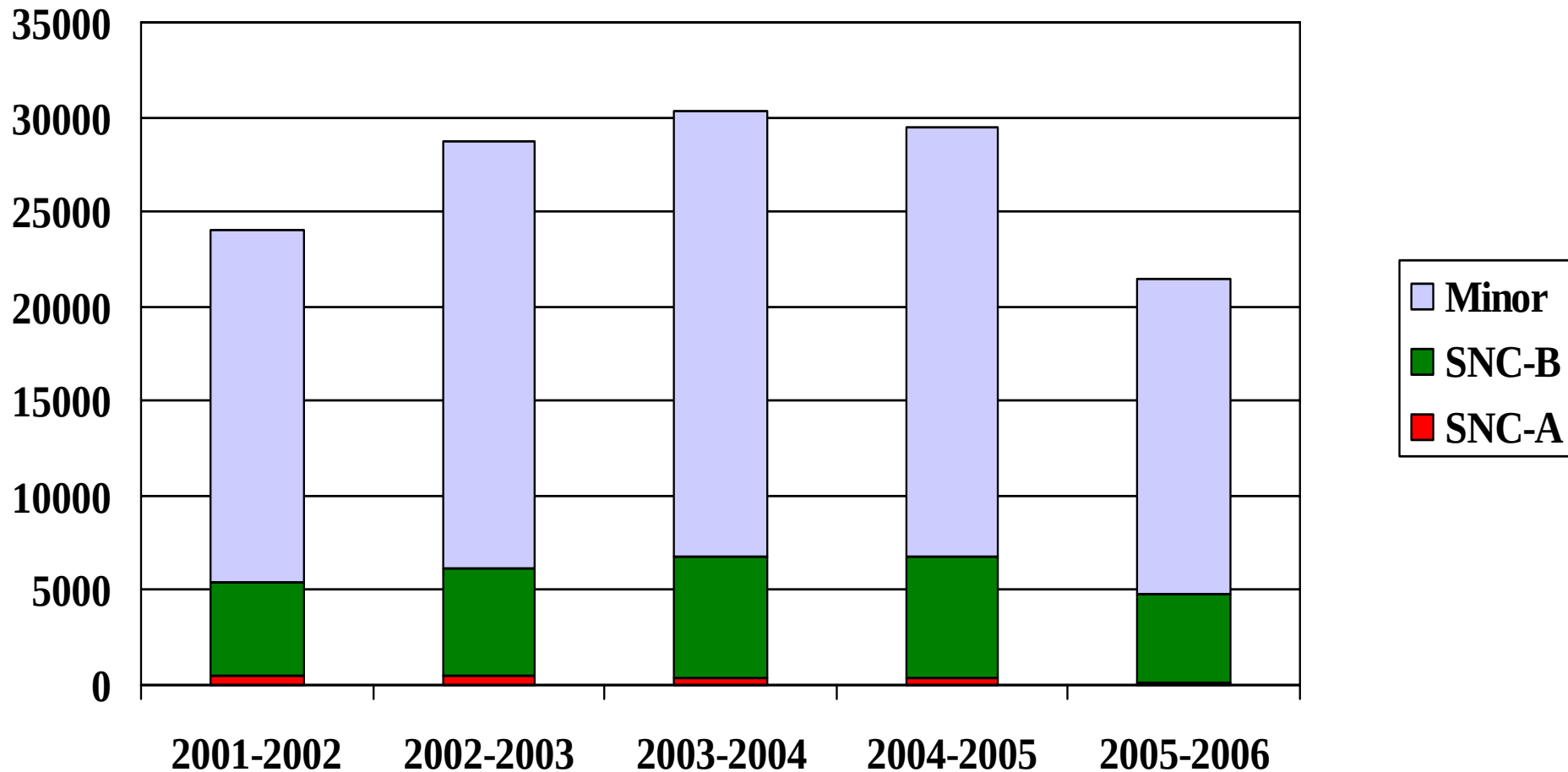
Minor Violations Resolution

Significance Level - N



Source – STCM May 06

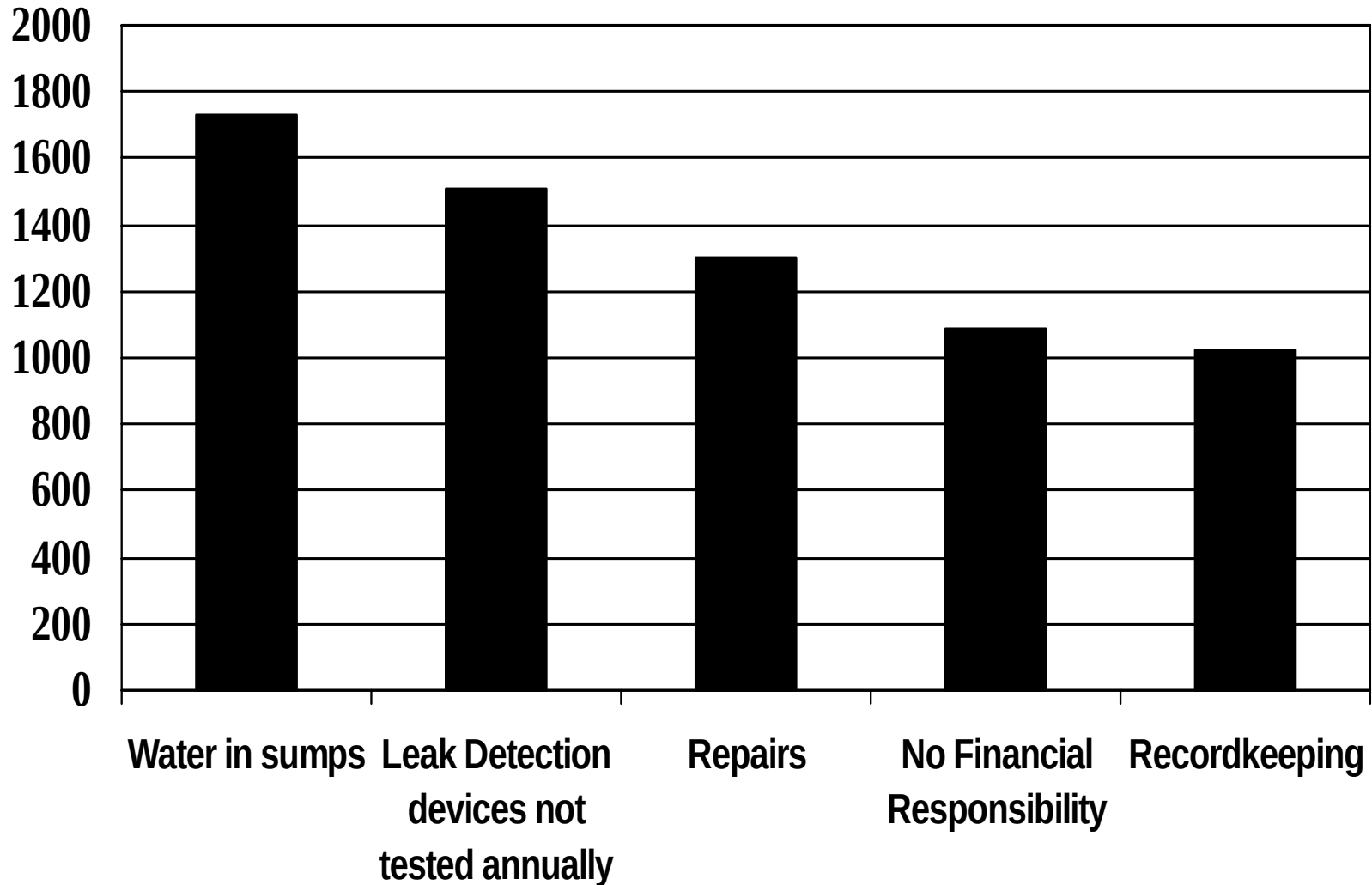
Violations Discovered – Comparison per Year



Most Frequent Violations

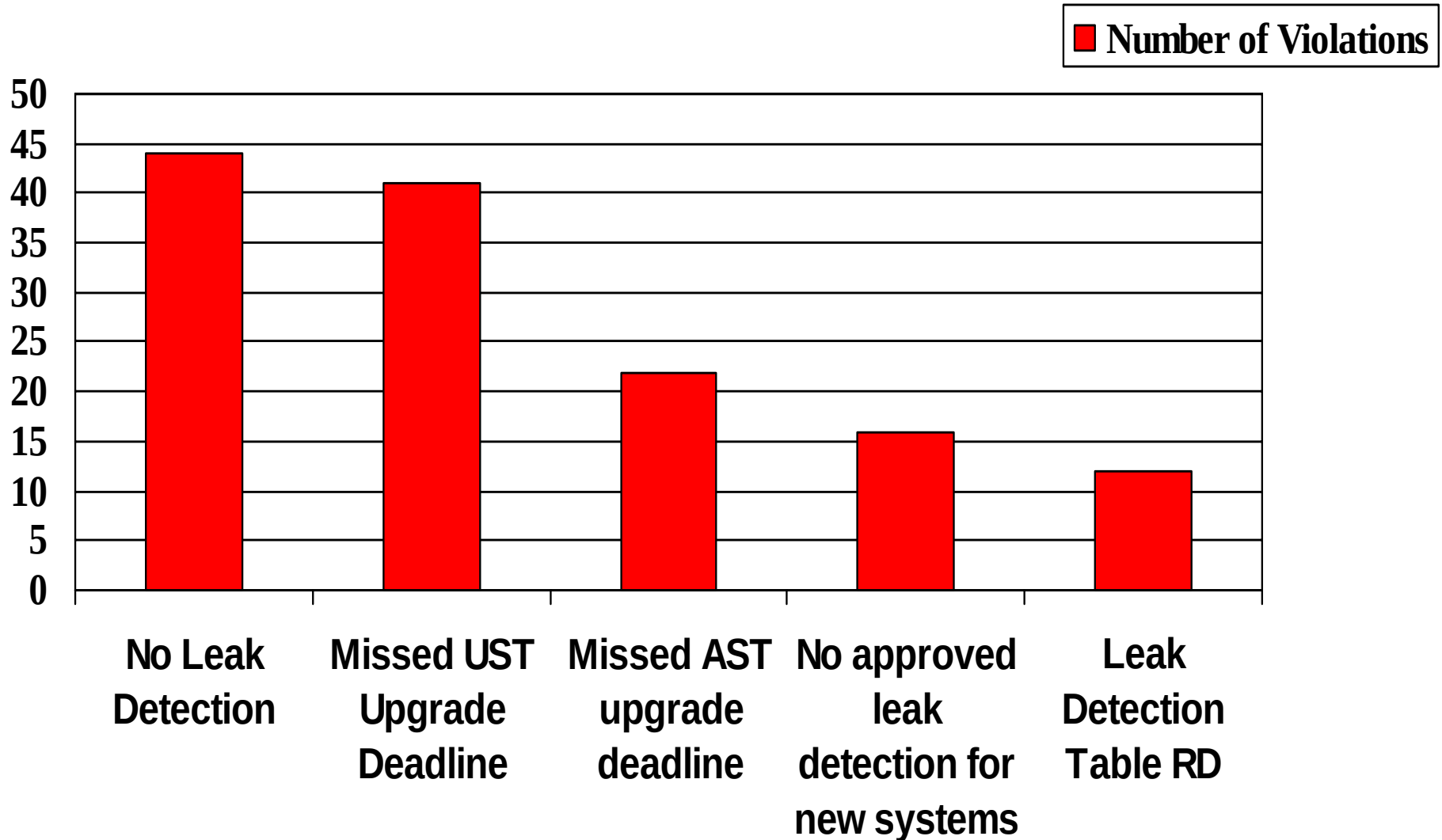
Source – STCM May 06

■ Number of Violations



Most Frequent SNC-A Violations

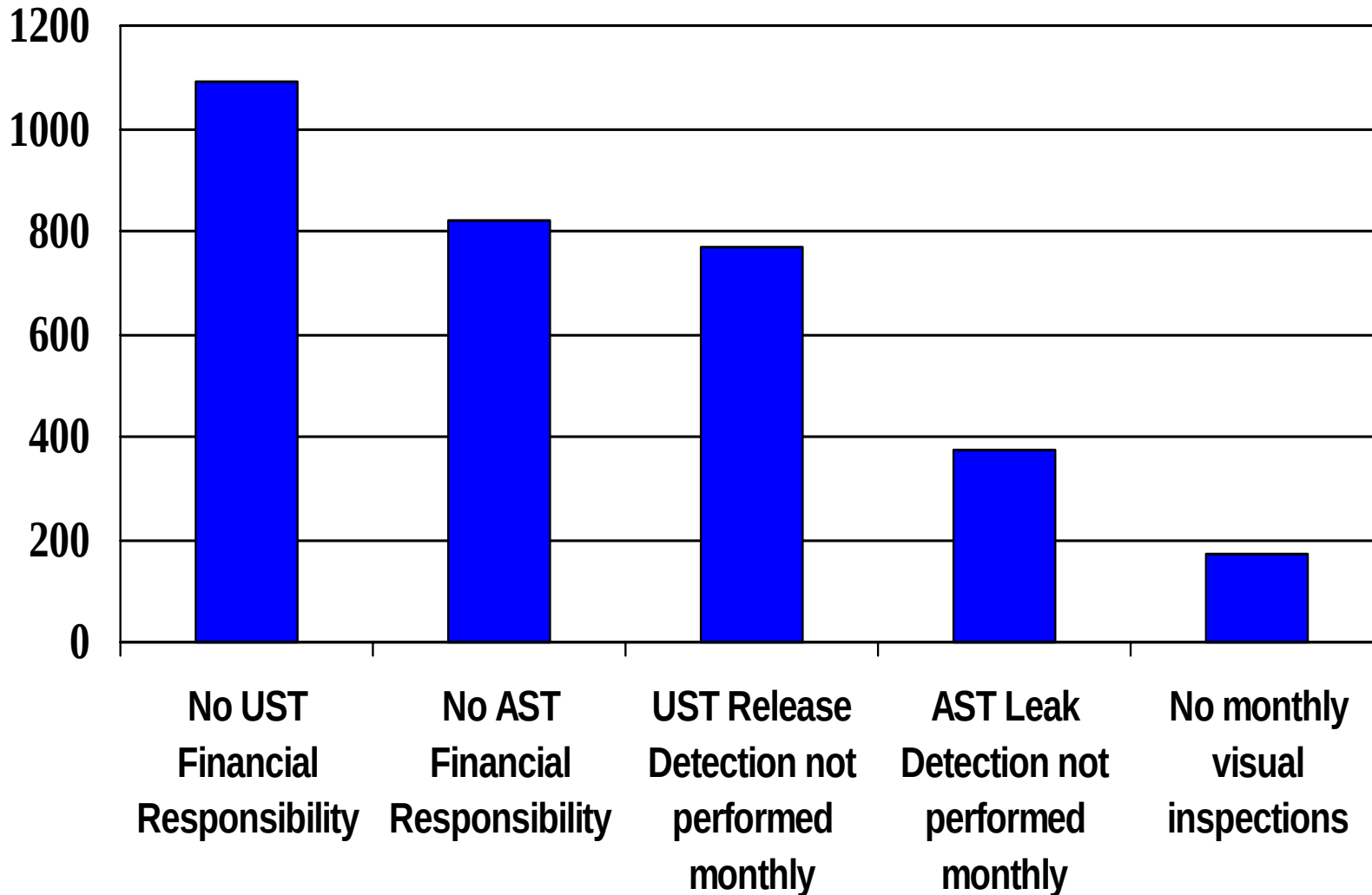
Source – STCM May 06



Most Frequent SNC-B Violations

Source – STCM May 06

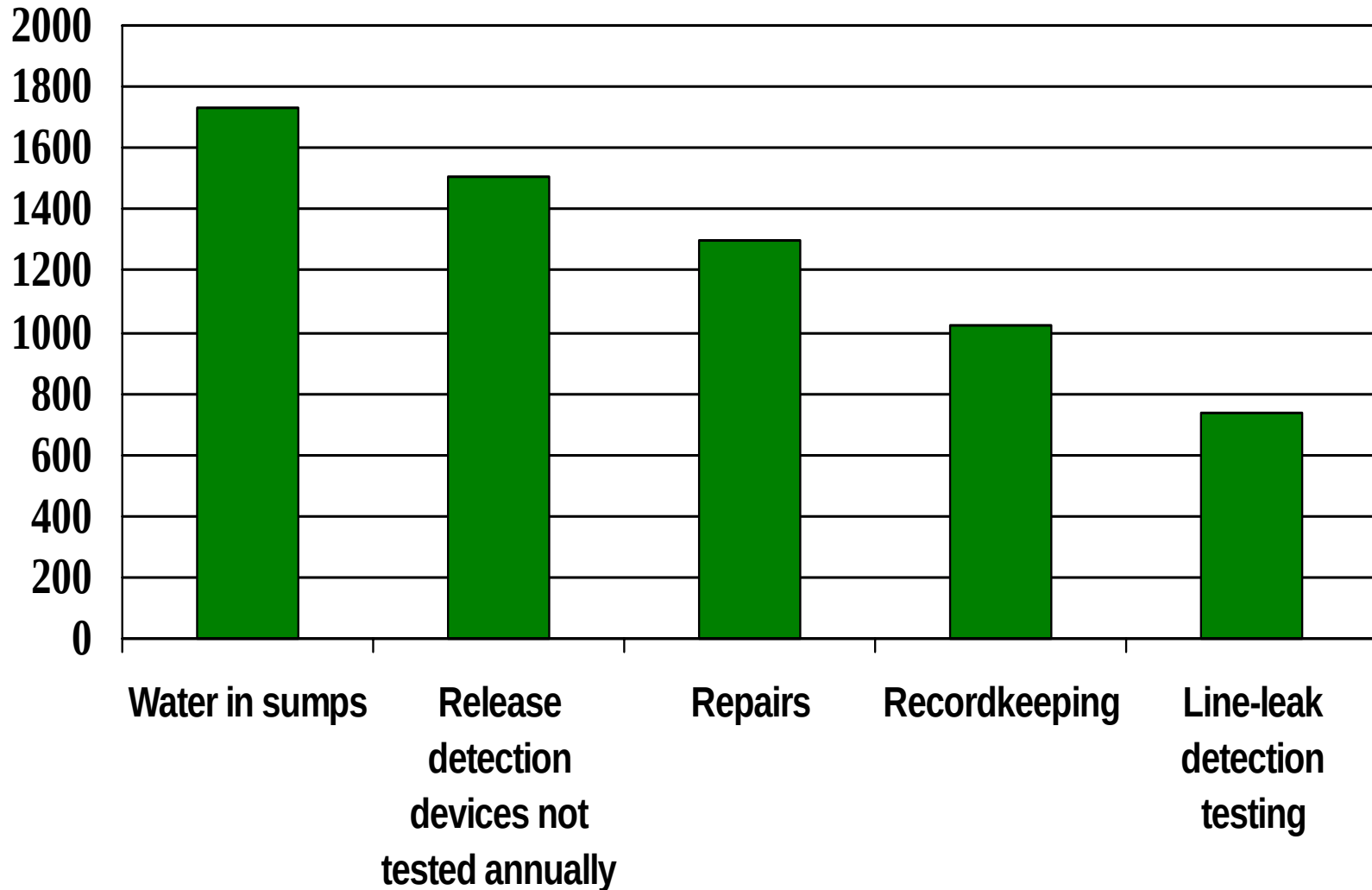
■ Number of Violations



Most Frequent Minor Violations

Source – STCM May 06

■ Number of Violations



- **Encourage Early Upgrading for the 2009-2010 Deadline for Secondary Containment**

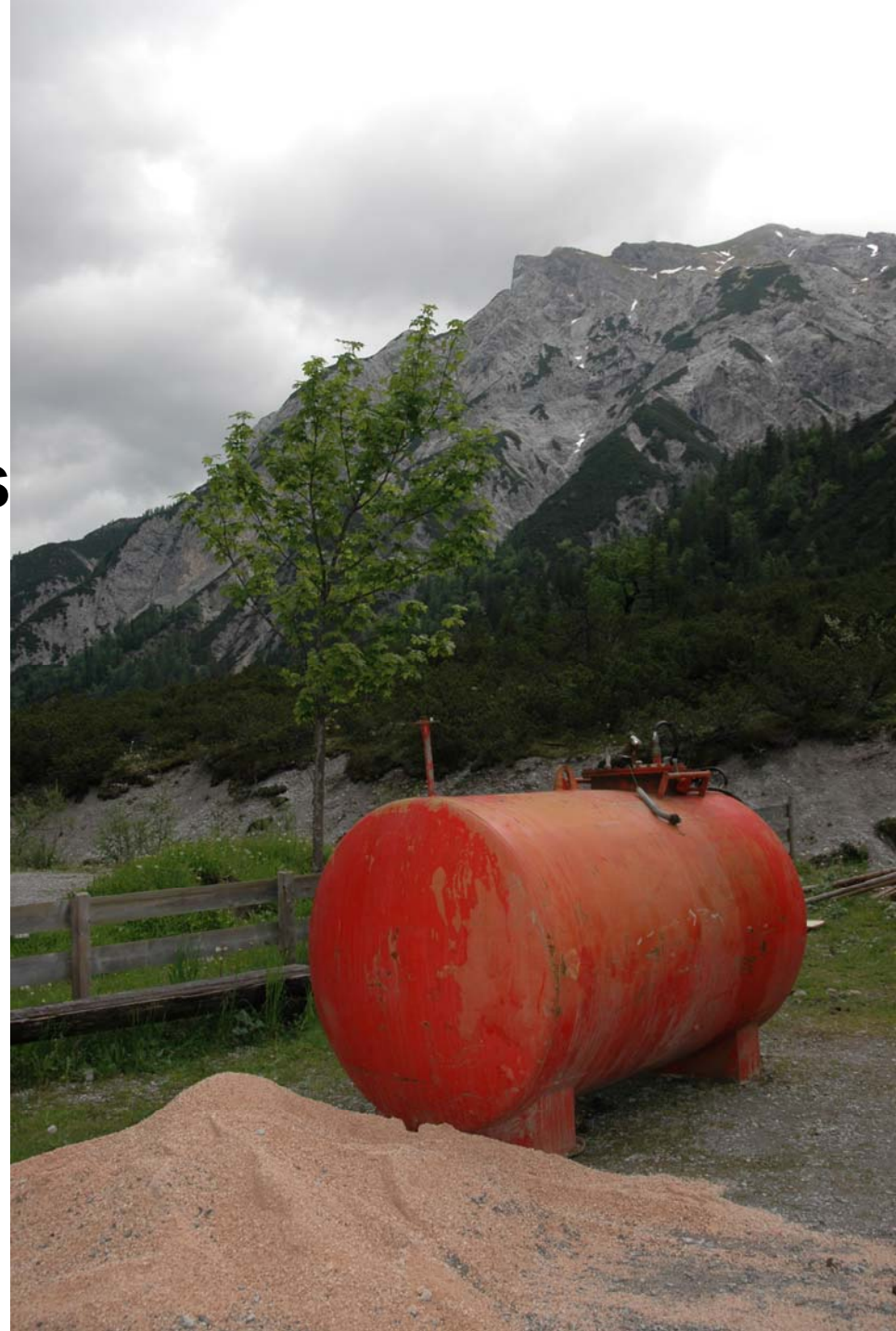


Wyoming

We want to make it very clear.....



- **DEP has never given extensions, variances, or waivers for the upgrade deadlines**
- **Competition factors**
- **Inspectors will target single-wall facilities**
- **Supply and Demand**
- **DON'T WAIT TO UPGRADE!**



This Year's "Unusual" Pictures!



Germany

UST Roofing



APR 19 2006

Drive-by Inspections



People who live in steel houses....





Buncefield, England, December, 2005

Buncefield, England, December, 2005





Lightning-Induced UST Fire & Explosion, Pinellas County, 2005



Flood-exposed tanks in New England





Improperly anchored USTs in Kansas

**Katrina storm
surge in
Mississippi floats
Field-erected ASTs**



Typical Damage to UST Facilities in Mississippi from Katrina storm-surge





UST Discharge from Katrina

UST Hurricane Shelter in Northwest Florida



02/08/2006



02/08/2006

Discharge Data

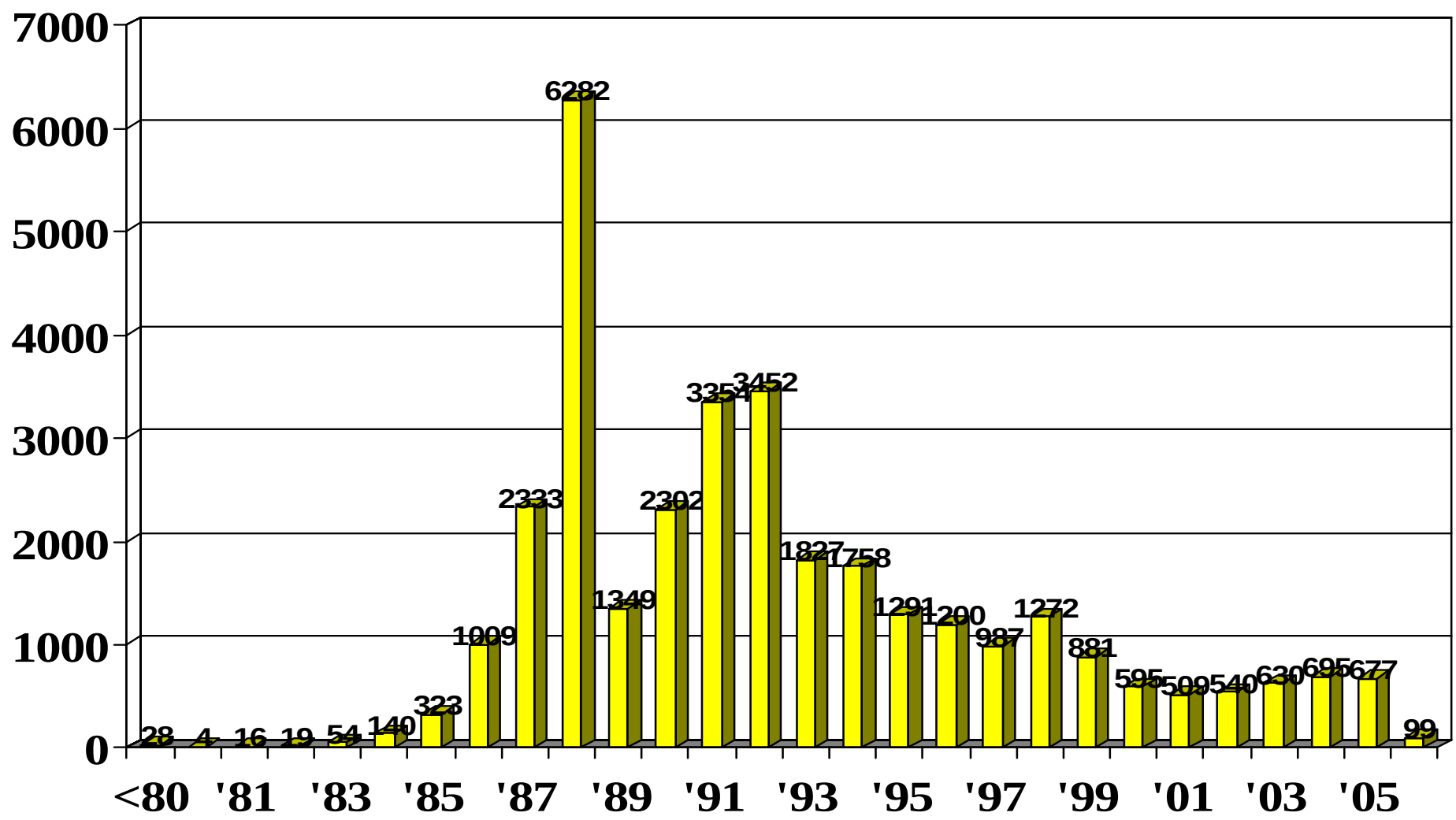


Petroleum Discharge Report Forms Received

ASTs and USTs

Discharges

Source: STCM, May 06

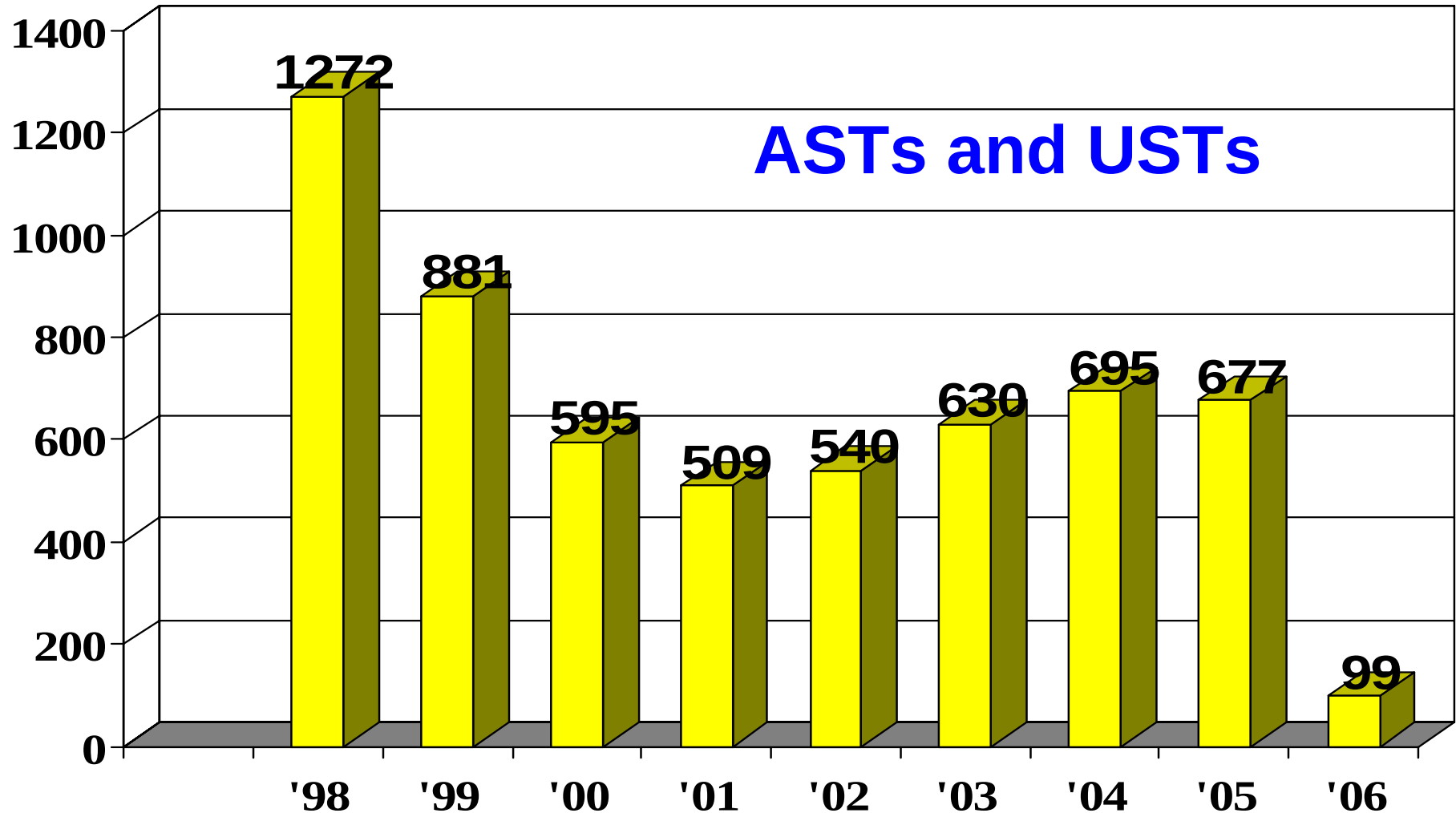


33,626 Discharge Report Forms Received

Post-1998 Petroleum Discharge Report Forms Received

Discharges

Source: STCM, May 06



5898 Post-1998 Discharge Report Forms Received

Protecting Florida's Water Quality for Future Generations





The End

Utah