

# AFSL General Membership Meeting

October 5, 2023

La Paloma Resort Tucson, Arizona



# Agenda

- Board of Director's Report Mike Ingram, AFSL Board President
- Call for Ballots Election of AFSL Directors
- Financial Report Jason Trout, Treasurer
- AFSL Consumer Fireworks Testing Program (QIP) Report
- Database Integration Project and CPSC's E-Filing Program
- AFSL Activities Update and Domestic Injury Surveillance Program
- AFSL Consumer Fireworks Standards Committee Activity
- Election Results
- Questions
- Closing Remarks Mike Ingram, AFSL Board President



# Board of Directors' Report

Mike Ingram – President, AFSL Board of Directors



# Election of Directors

# 2023 Candidates for AFSL Board of Directors

- Consumer Fireworks Importer, Distributor, Retailer Category
  - Jason Trout American Promotional Events, Inc.
  - Alan Zoldan Phantom Importing & Distributing, LLC

- Consumer Fireworks Shipper Category
  - Joe Wan Shogun Pyrotechnics



# Financial Report

Jason Trout - Treasurer



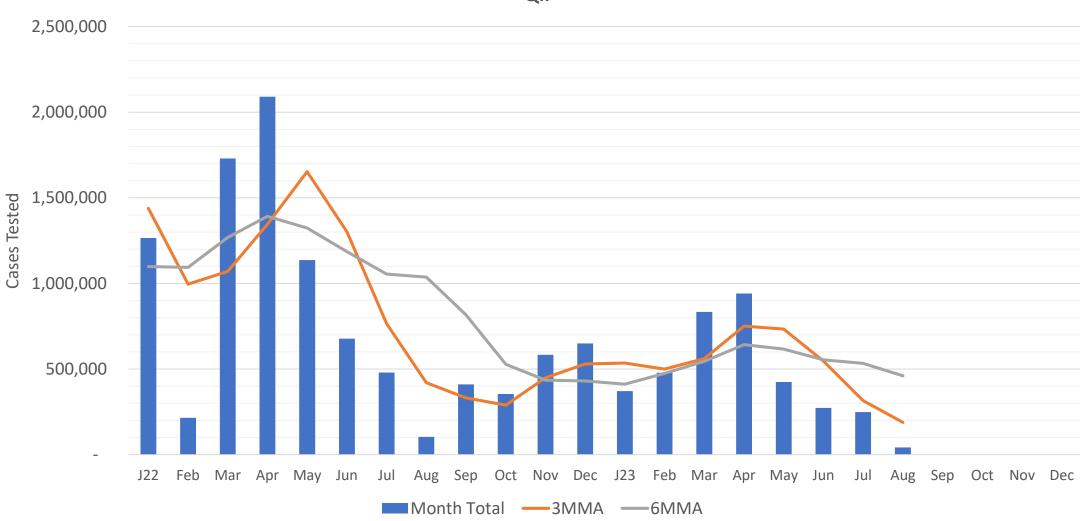
# China Fireworks QIP Review and China Report

William Zhou – China Operations Manager

Jay Howell – Executive Director



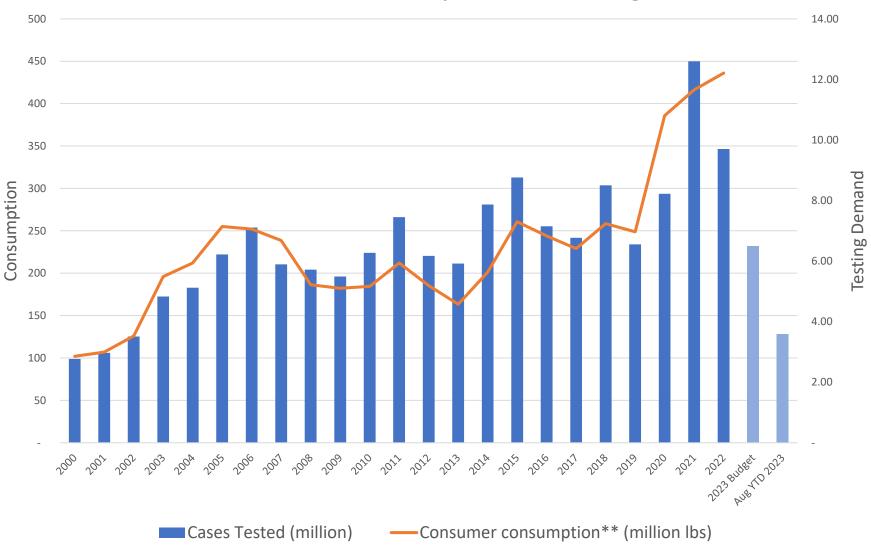
# Consumer Fireworks Testing QIP



Source: KPIs\_rev2

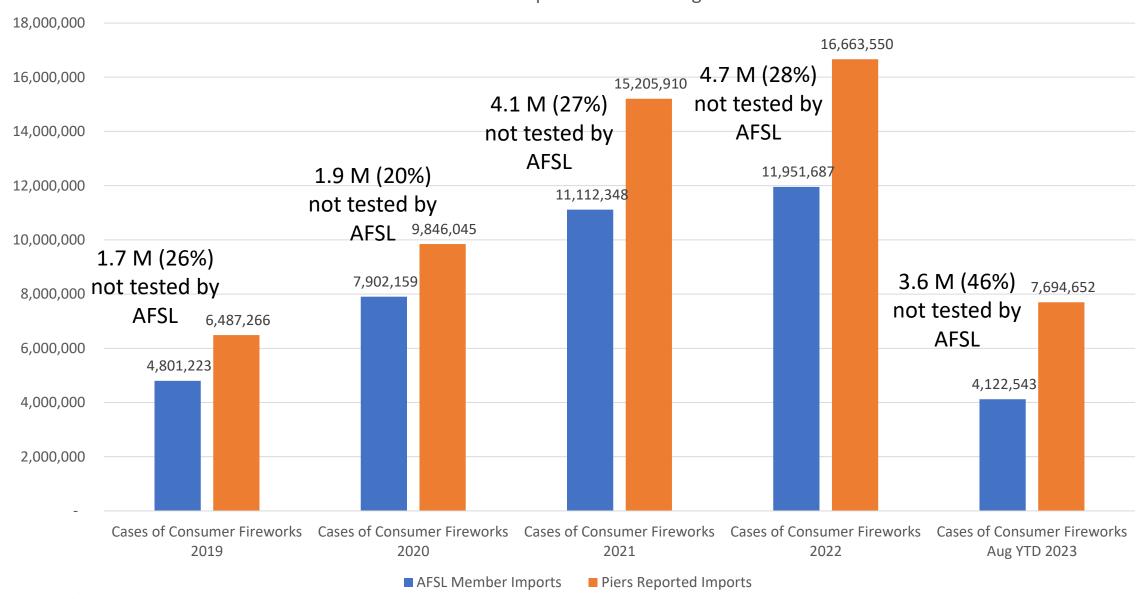
- After experiencing a 23% drop in testing volume from 2021 to 2022, the 2023 testing volume was forecasted to drop another 33%.
- The 2023 testing volume was budgeted at budgeted at 6.5 million cases.
- August YTD volume is 3.6 million.

#### U.S. Consumer Fireworks Consumption and AFSL Testing Demand

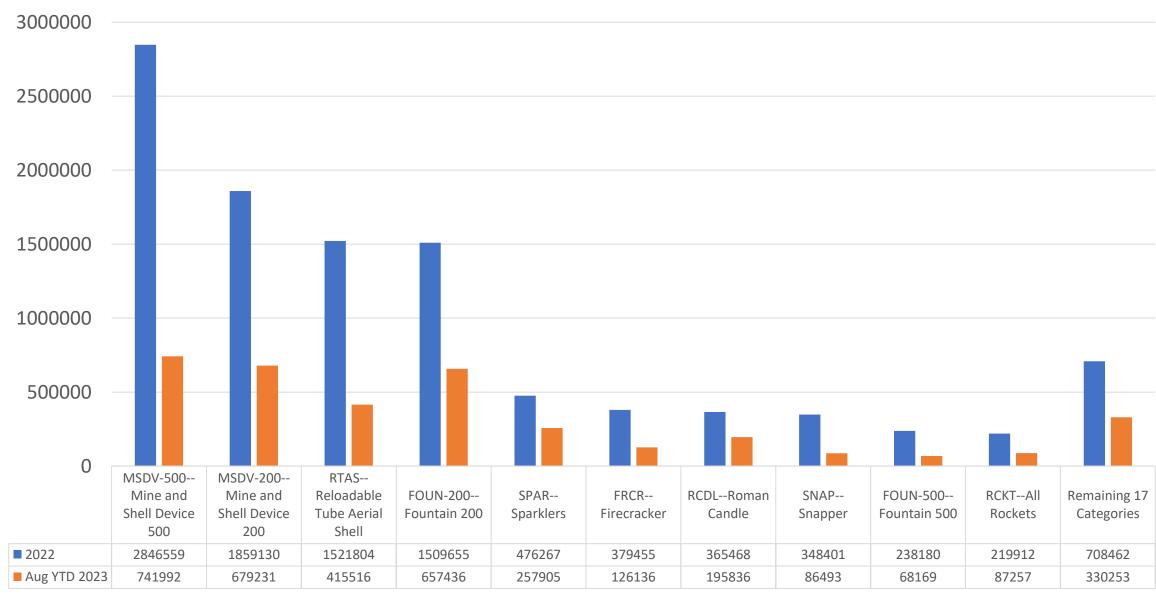




#### Market Participation in AFSL Program



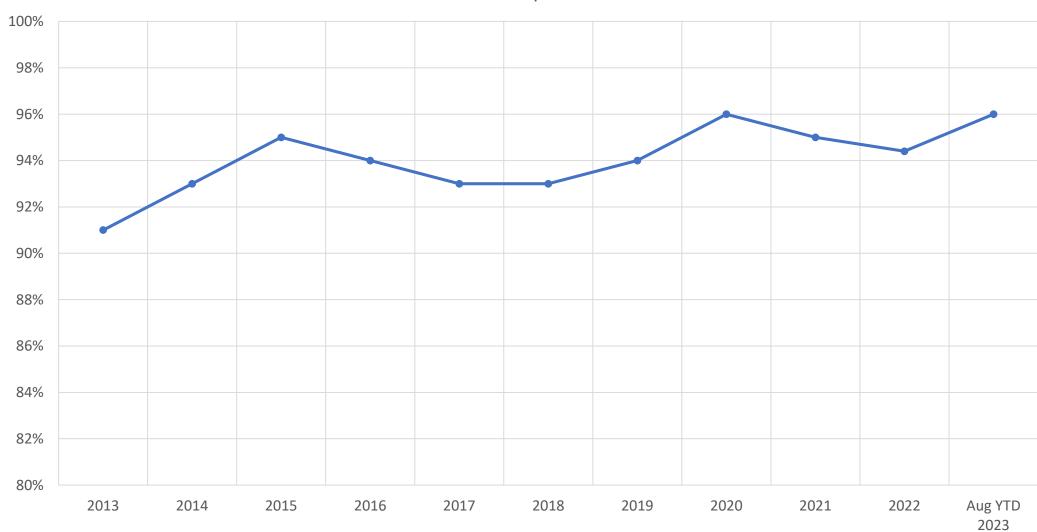
#### Cases Tested by Category

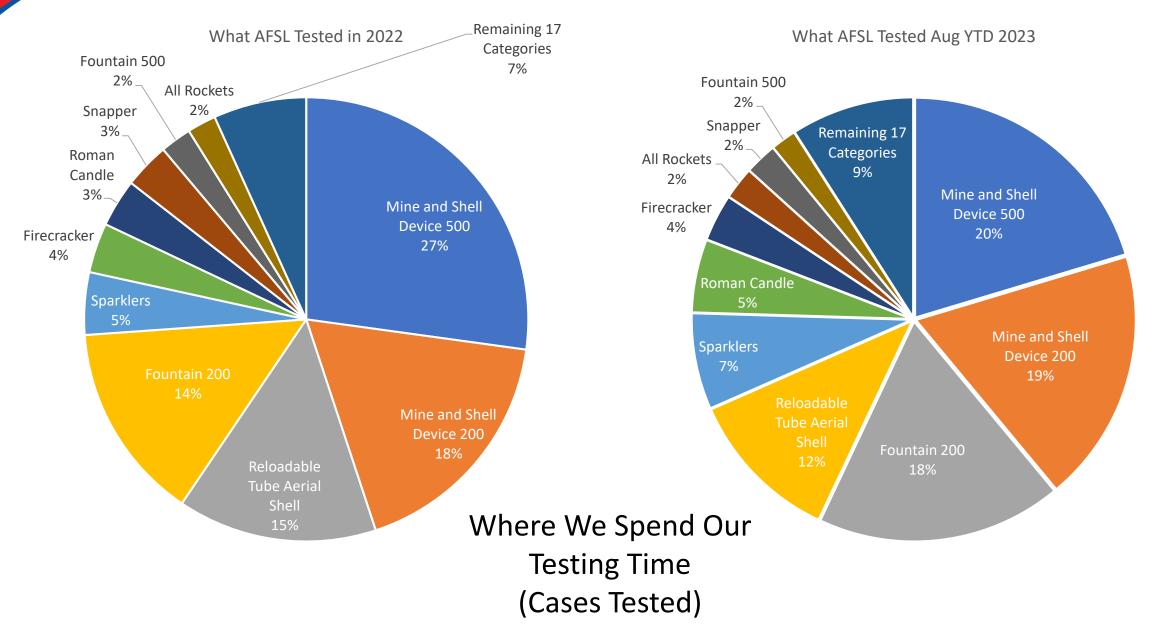


Source: Full Test Reports\_rev1

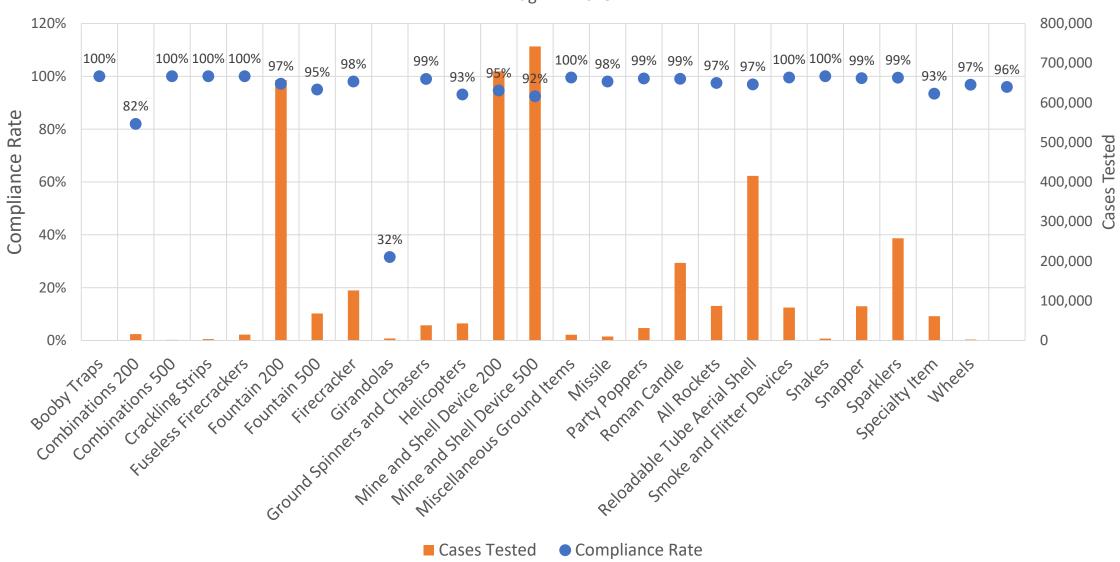


#### AFSL QIP Compliance Rate

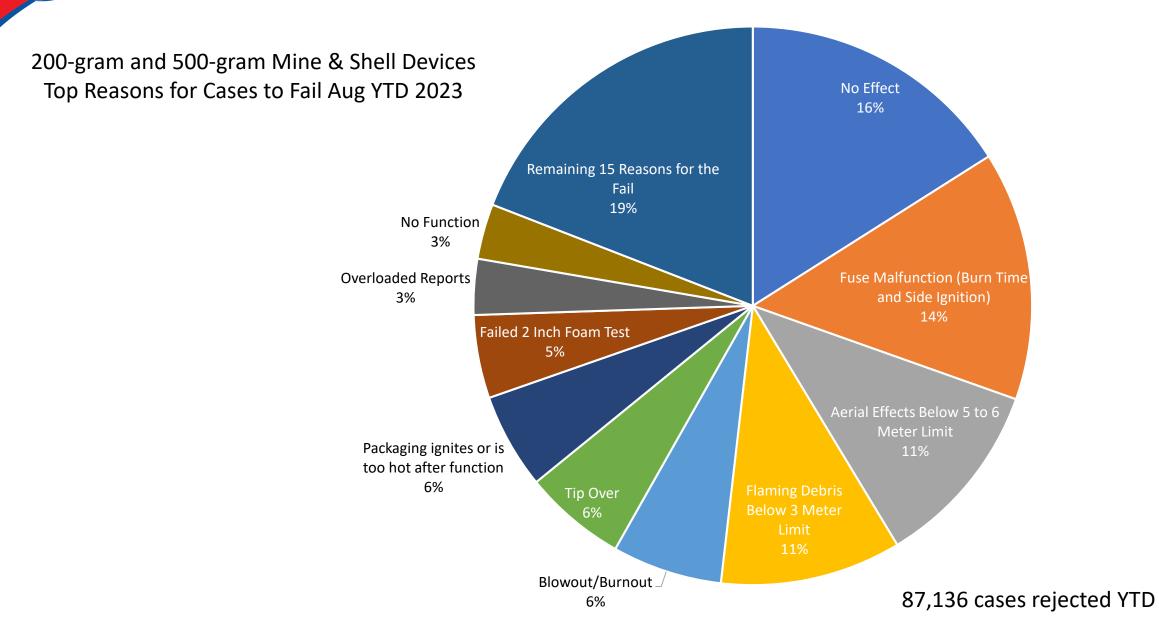


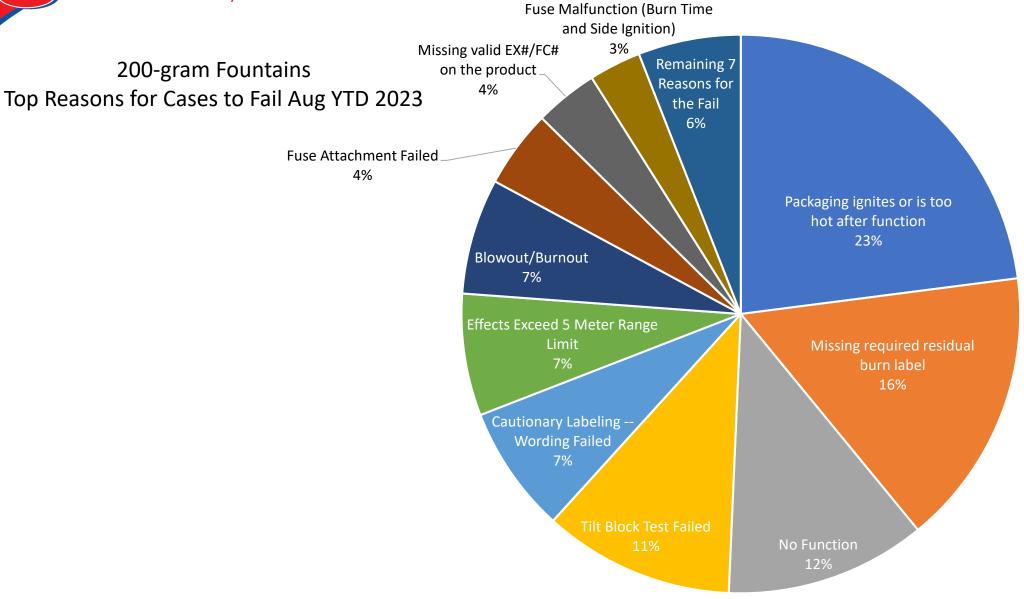


### Number of Cases Tested and Compliance Rate by Category Aug YTD 2023



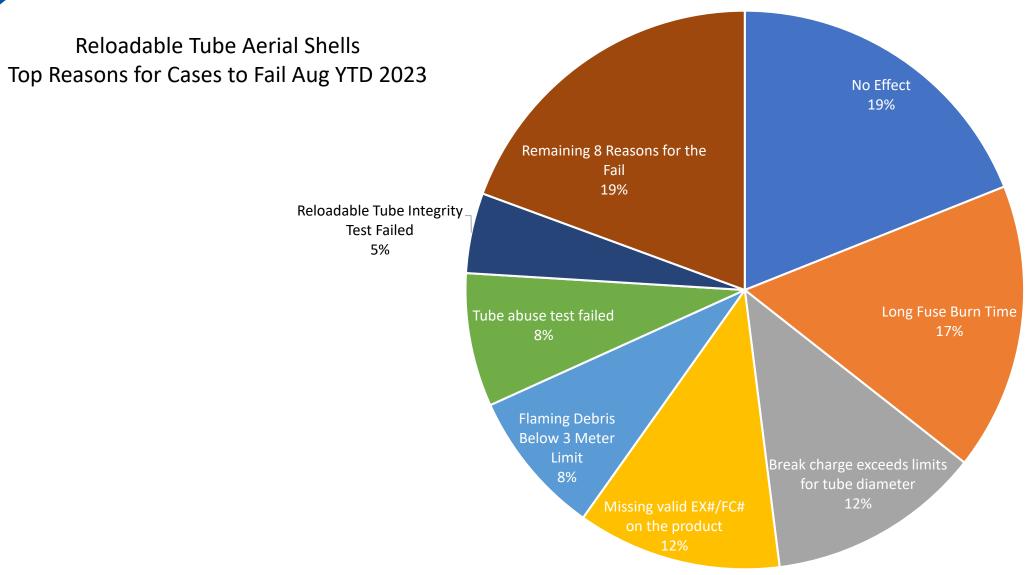






17,702 cases rejected YTD



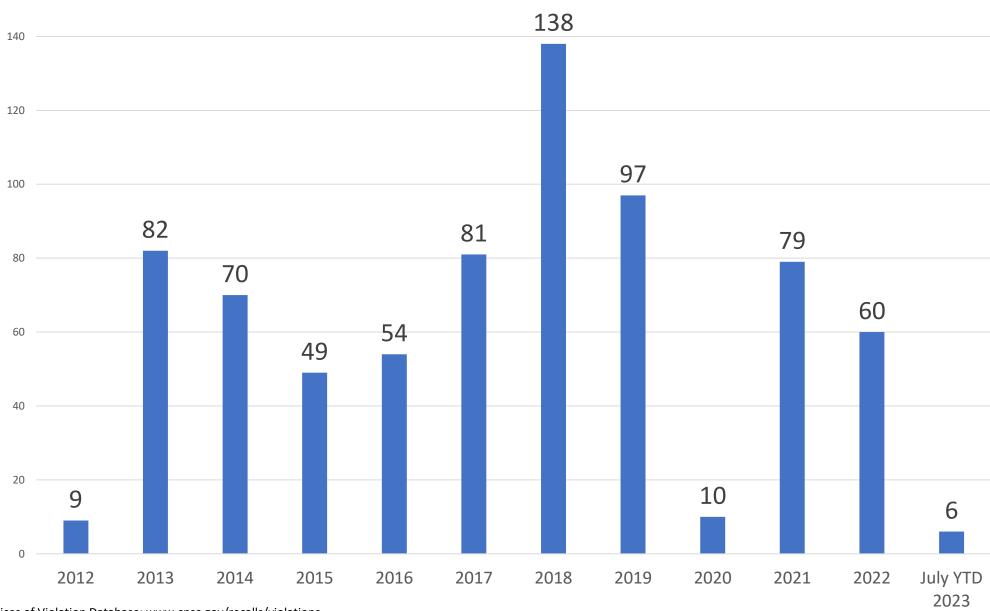


11,842 cases rejected YTD

Source: Full Test Reports\_rev1

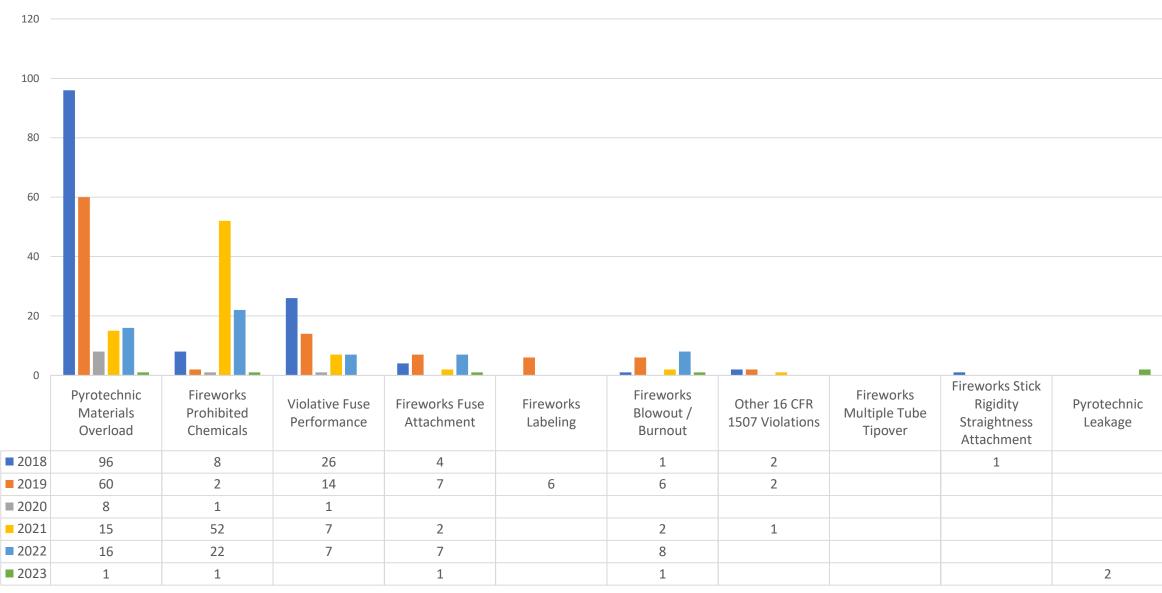
### CPSC Import Surveillance and Office of Compliance Findings







#### **CPSC Consumer Fireworks Violations**





# **BV** Database Transition

Jay Howell – Executive Director



# System Implementation – Go Live

- Transferred data from AFSL's database
- User Acceptance Testing performed with AFSL staff and select shippers
- System went live on September 1



# System Implementation – New System Benefits

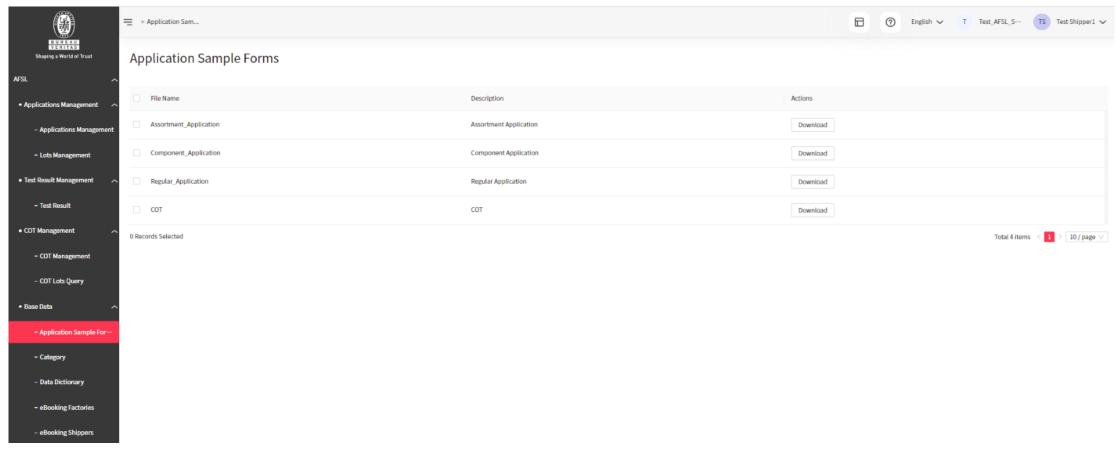
- Improved User Interface
- Increased reliability and security
- Enhanced User Management

Improved Reporting Capabilities



# System Implementation – New System Benefits

Improved User Interface





# Increased Reliability and Security

- From
  - Single Machine Deployment AFSL Database

- To
  - Distributed Deployment BV Cloud-Based System
  - Four Servers with Downtime and Restart Monitors
  - Enhanced Security Protocols and Regular System Updates



# **Enhanced User Management**

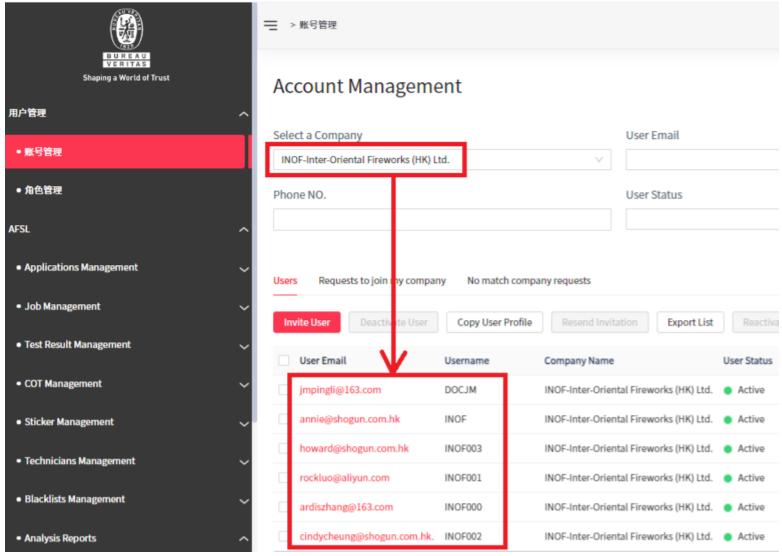
User manages their own passwords

Shippers can self-register multiple users

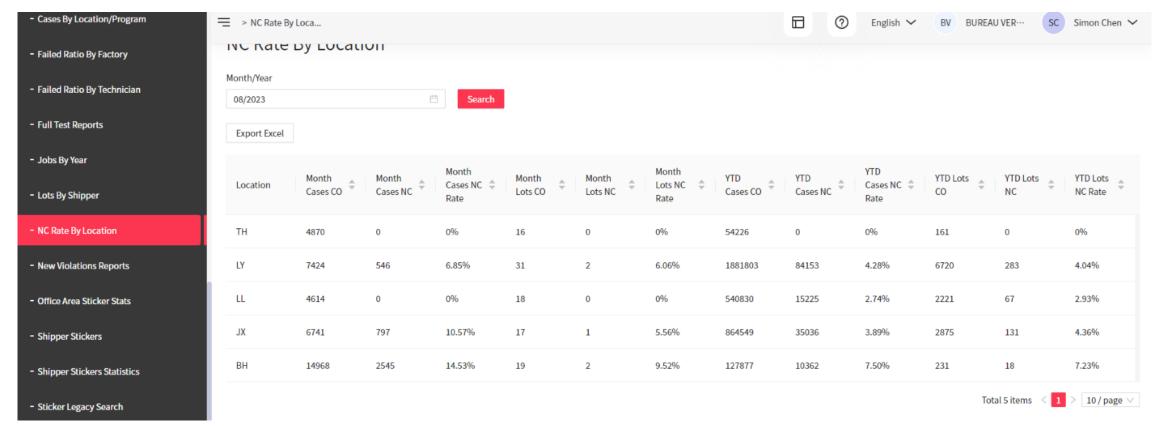
Users can have varying permissions depending on role



# **Enhanced User Management**



# Improved Reporting





### Future Development Plans

- Chemical composition screening test planning and tracking module
- Re-packing of previously certified lots
- Factory Registration Program (e.g., snakes, snappers)
- Electronic Reporting from Field Testing Sites
- E-filing of Certificates of Compliance



# **CPSC E-Filing Program**

 E-filing will require fireworks importers to file electronically with CBP, specified data elements from the certificate of compliance.

• CPSC's objective is to make e-filing mandatory by the end of 2024.

Winter 2023/2024 Fall 2022 Spring 2024 **Begin IT** Receive Iterative End Beta Pilot Development Feedback Winter 2022/2023 Fall 2023 End of Year 2024 Receive Iterative Begin Beta Pilot Finalize Rulemaking Feedback Summer 2023 Spring 2023 Testing and PGA Message Set Volunteer Development **Onboarding** 



# **BREAK**

THE MEETING WILL RESUME IN 15 MINUTES

Jieli is collecting ballots



# AFSL Activities Update

Jerry Wingard – Director of Standards and Compliance











### 2023 AFSL Activities

Traveled to Brazil in April 2023 and tested the first shipment of AFSL-tested fireworks.





### 2023 AFSL Activities

- Worked with the Virginia Fire Marshal's Office, providing technical assistance for their annual fireworks and approvals.
- Working with several State Fire Marshals' Offices, local state officials, ATF, DOD, EOD, and the FBI, presenting a training program.
- AFSL Team traveled to China for the Technicians Training.
- Worked with several State Fire Marshals on items with reported issues in the US.
- Investigated fireworks injuries and fatalities in 2023.
- Presentation and Technical Staff at AFSL Booth (ICPHSO and NFA).















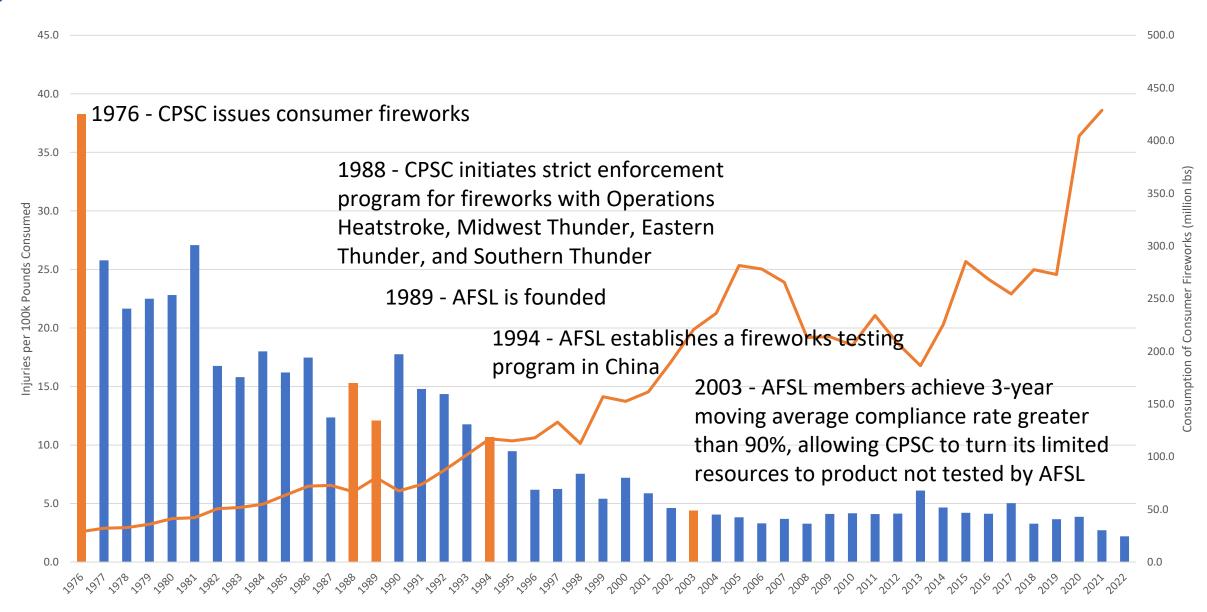


# Injury Surveillance Investigations

Jerry Wingard – Director of Standards and Compliance

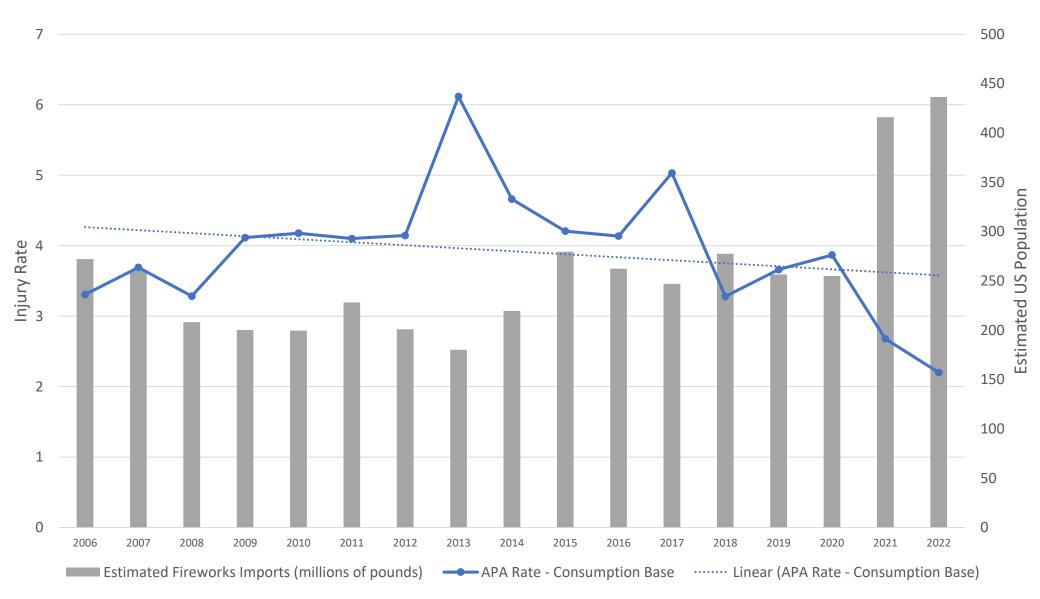


#### Fireworks-Related Injury Rates Drop as U.S. Consumption Grows



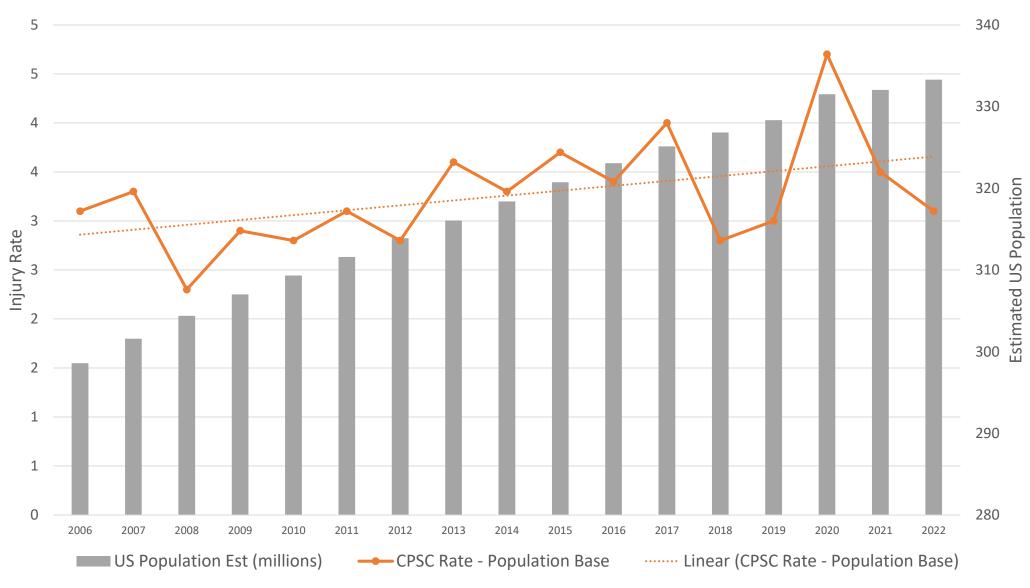


#### Consumption-Based Fireworks-Related Injury Rate



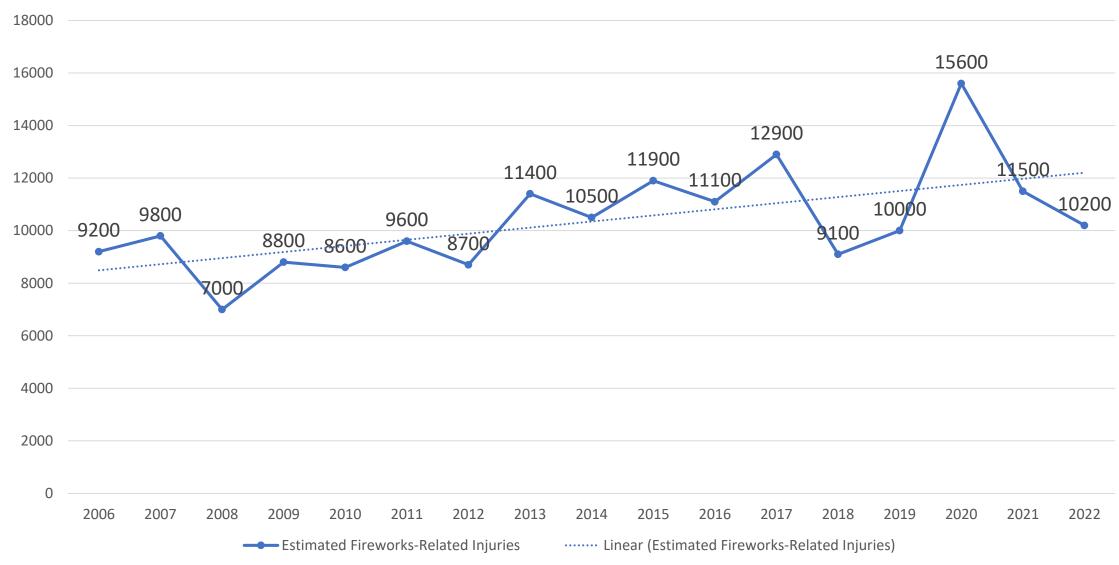


#### Population-Based Fireworks-Related Injury Rate

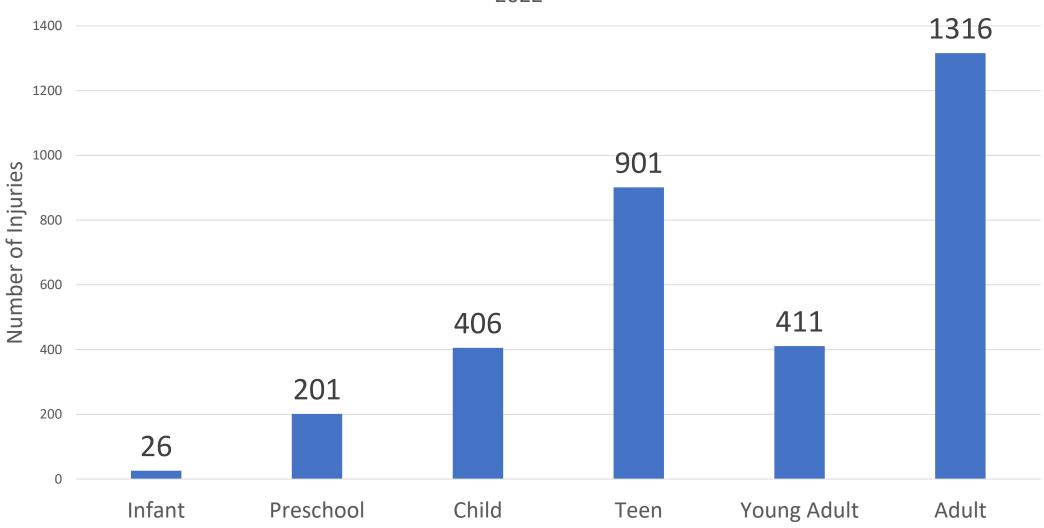


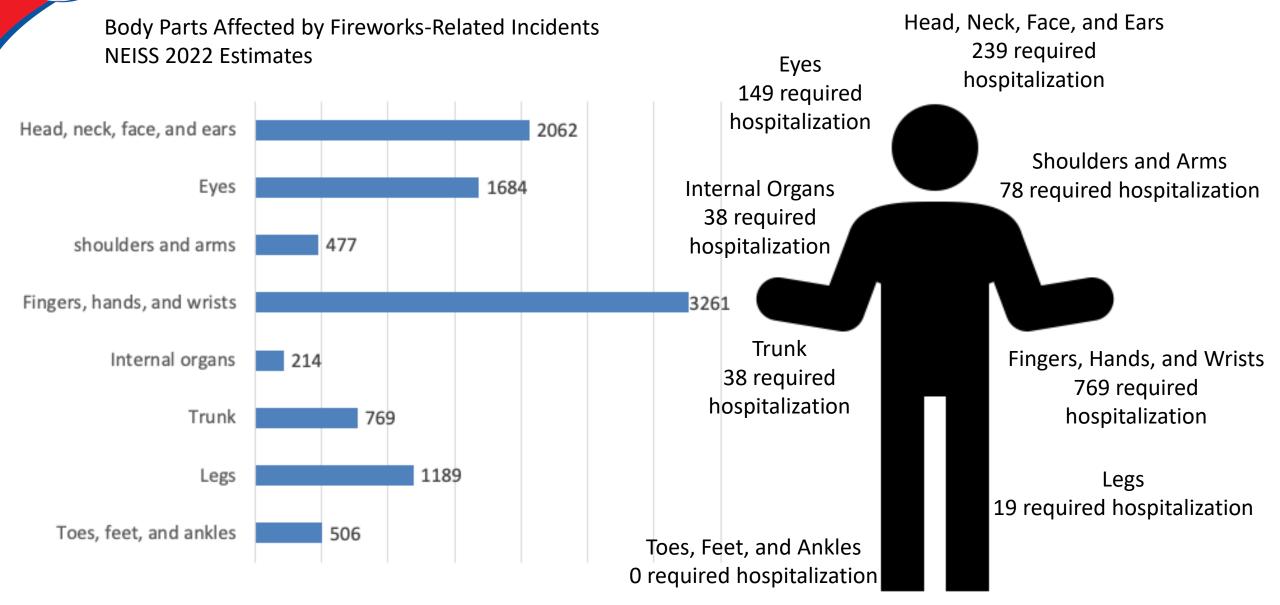


#### Estimated Fireworks-Related Injuries



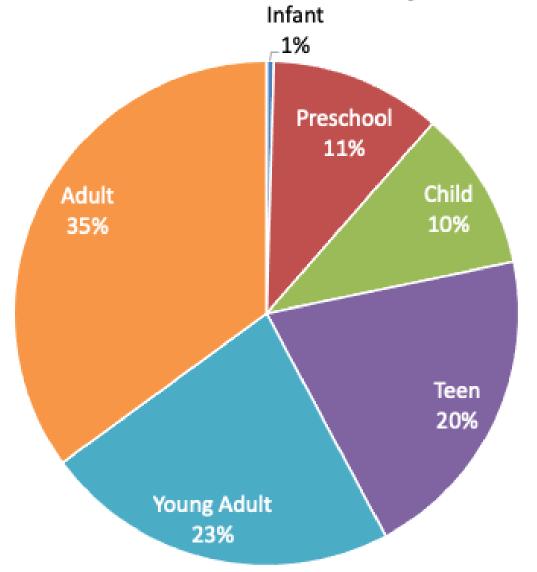
NEISS Estimated Wrist, Hand, and Finger Injuries by Age Group 2022







#### 2022 Estimated Fireworks-Related Injuries - U.S.A.





## AFSL 2023 Fireworks Investigations

- In 2023, AFSL investigated 12 fatalities and 30 injuries and fires reportedly related to fireworks.
- Following is a summary of the fatalities, injuries and fires that were investigated.



#### **2022 Fireworks-Related Fatalities**

- 16 reported fatalities
  - 7 Consumer fireworks
  - 5 Homemade and illegal fireworks
  - 2 Involved display shells
  - 2 Unknown

The 7 consumer fireworks fatalities reportedly involved reloadable tube aerial shells.

#### **2023** Fireworks-Related Fatalities

- 12 reported fatalities
  - 7 Consumer fireworks
  - 2 Homemade and illegal fireworks
  - 2 Involved display shells
  - 1 Unknown

5 of the consumer fireworks fatalities reportedly involved reloadable tube aerial shells.

1 was a fire fatality reportedly involving consumer fireworks.



## **AFSL Fireworks Investigations**















#### California Man Seriously Injured When Firework Explodes on His Head During Trick **Gone Wrong**

The force of the explosion put a large dent in the crown of the helmet that was worn by the man

Published 09/14/23 09:24 PM ET | Updated 09/14/23 09:24 PM ET Scott McDonald





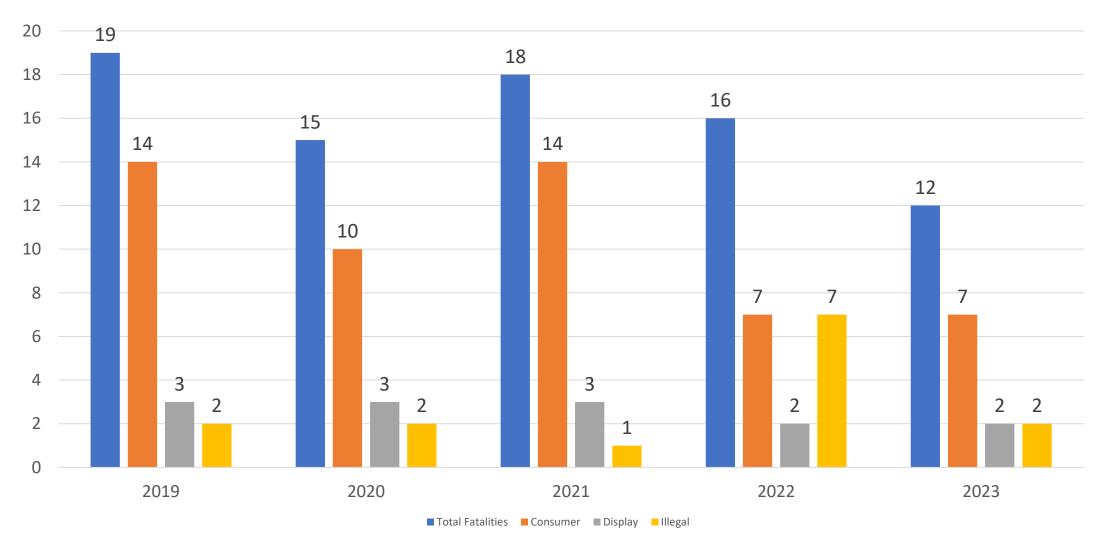






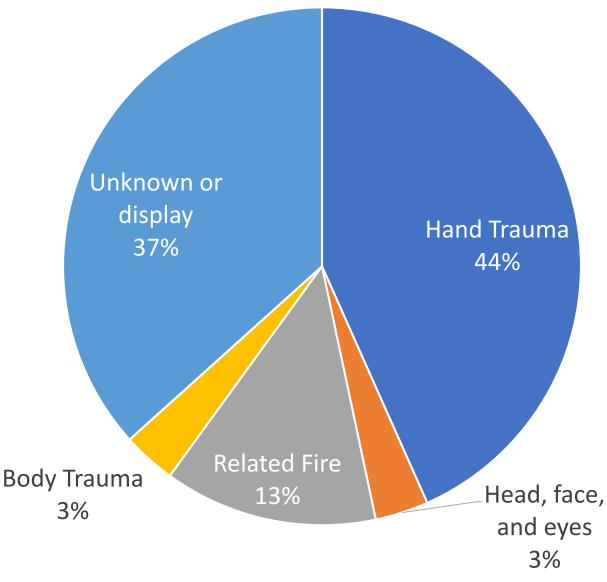


#### Fireworks Fatalities for Five Years



30 Fireworks-Related Injuries Investigated

- Severe trauma to hands; loss of fingers and/or hand
- 1 Trauma to head, face, and/or eyes
- **4** Related Fires
- 1 Body Trauma
- 11 Unknown or display fireworks





## Hand Injuries

The Hand Injury Task Group is still investigating the causes of fireworks-related injuries and developing realistic approaches to mitigate the risk of these types of injuries.

The Task Group has developed various concepts, and reviewed these ideas with the Standards Committee at the last Standards Committee meeting and will be revisiting the topic at the upcoming meeting. One concept, involving two fuses being woven together, was discussed with a fuse manufacturer during our last visit to China and it appears they manufacture fuse like this for other items, but it is not being used in reloadable shells.





## Hand Injuries







# Standards Committee Report

Jerry Wingard – Director of Standards and Compliance



# AFSL Standards Development Activity Standards Committee Upcoming Meeting

- Dealing with the increase in residual burn issues.
- Look at and discuss Snappers, Party Poppers, Novelty Fountains, Novelty Flitter Sparkler.
- AFSL Standards Reformat.
- Continue looking at fatalities and hand injuries and ways to help eliminate some of these injuries and deaths.
- Review labels on items associated with reported accidents.



## Observation

- Residual burn continues to be an issue
  - We continue to see an increase in residual burn failures at state-level and other testing and observation by AFSL Staff.
  - We intend to review our residual burn / thermal failure requirements and testing procedures to better identify products subject to these types of failures.
  - We also tested the moisture content of items in China and then retested them when they arrived in the US. These tests showed little change with the moisture content.
  - During our trip to China the test method was reviewed, and the equipment
    was upgraded to better identify violative product. The team is now using a
    different test device, but the basic test procedure and pass/fail criteria is the
    same.



## Residual Burn









# AFSL Standards Development Activity Standards Committee













## **Election Results**

Jay Howell – Executive Director



## Questions



# Closing Remarks

Mike Ingram – President, AFSL Board of Directors



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