Metrics

Objectives

- Overview of metrics and NOAA applications
- Develop meaningful metrics to support Program initiatives and raise Small Boat visibility throughout NOAA.
- Create tools to better understand the Small Boat Operations “machine”
- Build infrastructure for data collection / mining and reporting
    - Agree on data collection requirements
    - Agree on terms and definitions
- Mission value and performance remains a LO / Local metrics. SBP can create the system to derive value metrics
- Short and long term metric initiatives

Metrics Basics

Purpose	Measure	Audience
Understand a Process	• Function • Noncompliance • Dashboard	Internal
Communicate Relative Magnitude	• Exposure • Value • Risk	External
Measure Progress	• Milestones • Strategic objective	Corporate

- Metrics
  - Today's corporate language
  - Meaningful to Leadership
  - Prerequisite for consideration of resources
  - Present the big picture – Platform Metrics
  - Support data to derive performance value measures

- OMAO Fleet
- SECO
- GSA Vehicle Fleet management
- NOAA Diving Program

OMAO Fleet Readiness Tracking

Fleet Readiness

Export to Excel | Export to PDF

Ship Name	MOC	Class	Last Submittal	Overall	Staffing	Ship Systems	Mission Systems	Project	Acquisition	Logistics	Safety/Env	Admin/Doc
Bell M. Shimada	Pacific	FSV	9/01/2017									
Fairweather	Pacific	HYDRO	9/03/2017									
Ferdinand R. Hassler	Atlantic	HYDRO	9/04/2017									
Gordon Gunter	Atlantic	TAGOS	9/06/2017			No Sail						
Henry B. Bigelow	Atlantic	FSV	9/05/2017									
Hi'ialakai	Pacific Islands	TAGOS	9/05/2017									
Nancy Foster	Atlantic		9/04/2017									
Okeanos Explorer	Atlantic	TAGOS	9/04/2017									
Oregon II	Atlantic		9/03/2017									
Oscar Dyson	Pacific	FSV	9/03/2017									
Oscar Elton Sette	Pacific Islands	TAGOS	9/01/2017									
Pisces	Atlantic	FSV	9/03/2017									
Rainier	Pacific	HYDRO	9/03/2017									
Reuben Lasker	Pacific	FSV	9/03/2017									
Ronald H. Brown	Atlantic		8/27/2017									
Thomas Jefferson	Atlantic	HYDRO	9/05/2017									

HB - Ship Systems as of: 8/28/2017

Up on blocks. Motor removed on Friday and shipped to Ohio for repair. Motor requires 6 of 8 coils replaced. Exploring procurement of parts from both local sources and Italy.

Availability – Readiness - Utilization

A-R-U Report

Full Fleet | MOC/Class | Ship | Oregon II | Fiscal Year: 2017 | Full Fiscal Year | Q1 | Q2 | Q3 | Q4 | Custom | 10/1/2016 to 9/1/2017 | Load

Summary

Planned Availablity	**252**		
Actual Availability	**263**	**Percent**	**104.4 %**
Planned Readiness	**231**		
Actual Readiness	**260**	**Percent**	**112.6 %**
Planned Utilization	**179**		
Actual Utilization	**172**	**Percent**	**96.1 %**
Planned DAS	**179**		
Net DAS Accomplished	**168**	**Percent**	**93.9 %**

Ship status reporting through period	**100.0 %**
Actual days are identified by Ops Log reporting	

Days at Sea

Planned	**179**
Planned, Accomplished	167
Planned, Not accomplished	12
Days restored	1
Net Accomplished	**168**
Net Lost	**11**
Percentage completed and reported	93.9 %
Ship Not as Scheduled due to:	
Admin/Docs	5
Project	1
Ship Systems	3
Weather	3

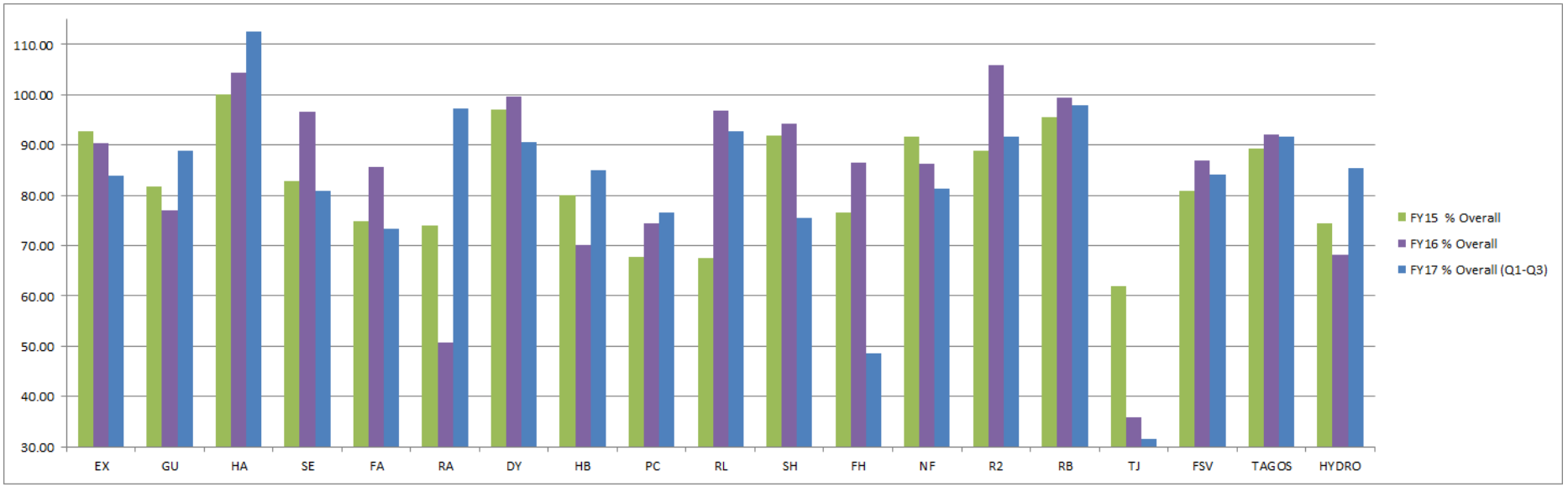
OMAO Fleet Metrics

Accomplished Days at Sea for Current FY

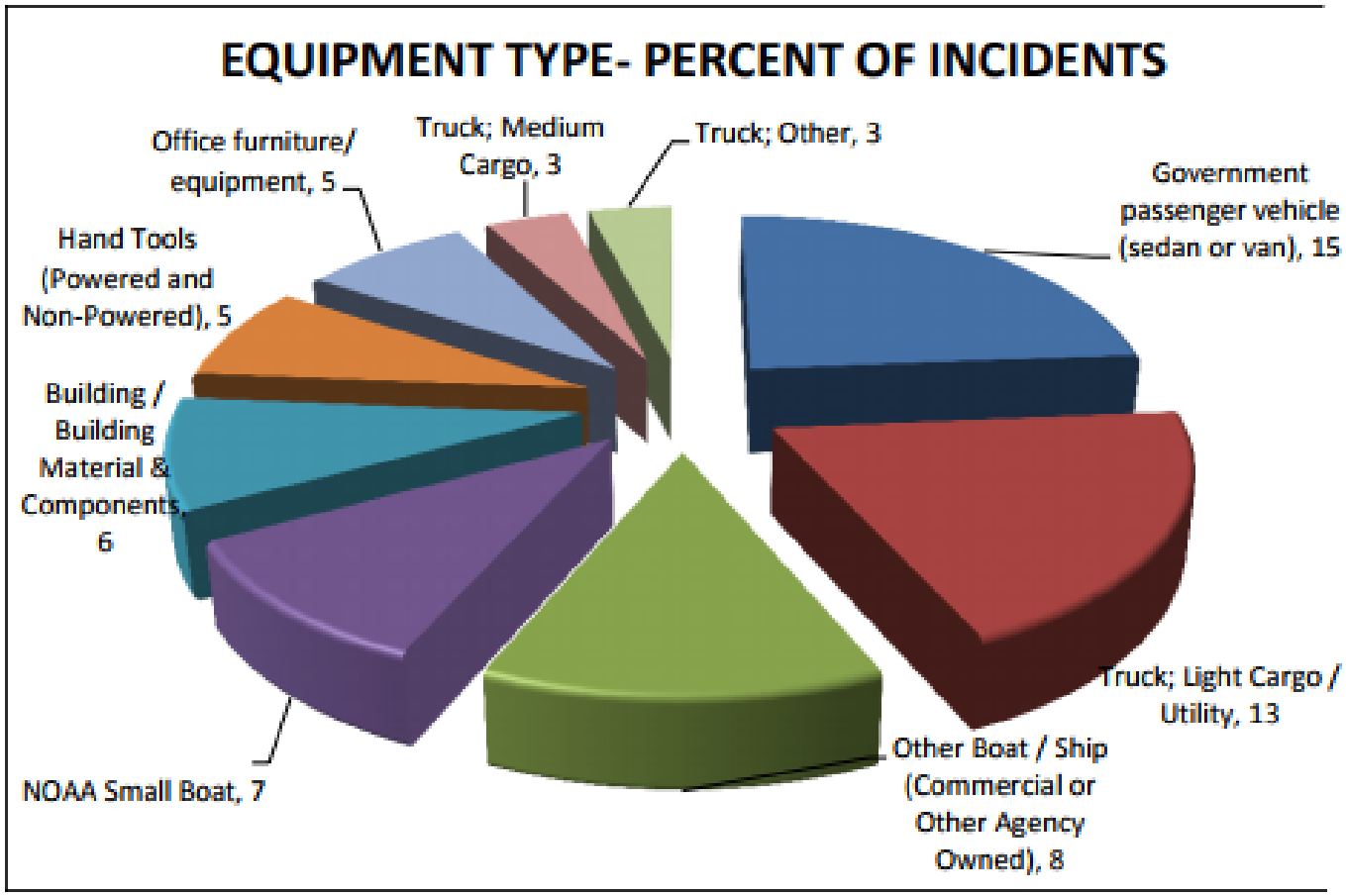
Export to Excel | Export to PDF

Ship Name	MOC	Class	Allocated Days	Days At Sea	Difference	Operating Days
Bell M. Shimada	Pacific	FSV	224	156	-68	182
Fairweather	Pacific	HYDRO	181	132	-49	249
Ferdinand R. Hassler	Atlantic	HYDRO	169	64	-105	114
Gordon Gunter	Atlantic	TAGOS	158	115	-43	127
Henry B. Bigelow	Atlantic	FSV	224	149	-75	162
Hi'ialakai	Pacific Islands	TAGOS	163	151	-12	163
Nancy Foster	Atlantic		186	152	-52	174
Okeanos Explorer	Atlantic	TAGOS	207	160	-47	244
Oregon II	Atlantic		207	168	-39	173
Oscar Dyson	Pacific	FSV	206	154	-52	198
Oscar Elton Sette	Pacific Islands	TAGOS	182	137	-45	137
Pisces	Atlantic	FSV	195	137	-58	191
Rainier	Pacific	HYDRO	227	145	-82	190
Reuben Lasker	Pacific	FSV	217	178	-39	196
Ronald H. Brown	Atlantic		228	228	0	282
Thomas Jefferson	Atlantic	HYDRO	154	74	-80	84
Totals:			**3,128**	**2,300**	**-846**	**2,866**

Performance Trend by Ship and Ship Class



SECO Metrics



NOAA Safety Performance

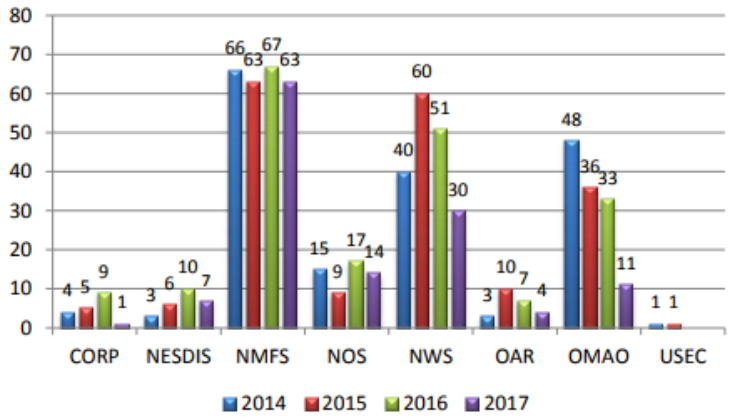
Class A thru D Accidents through June 2017

FY 2017 INCIDENTS BY LINE OFFICE*

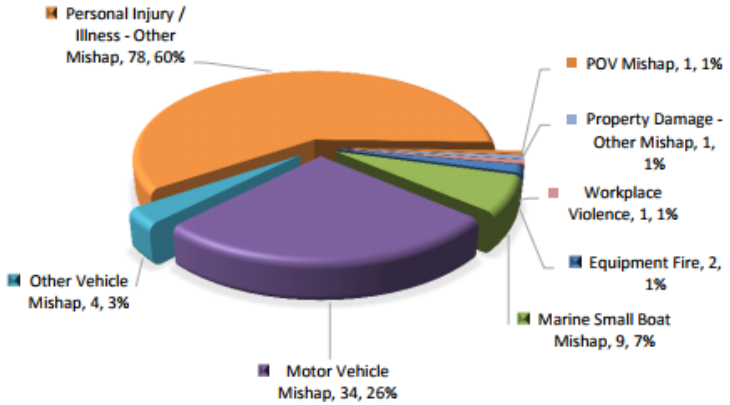
Line Offices	A	B	C	D	Grand Total
National Environmental Satellite, Data & Information Service			2	5	7
National Marine Fisheries Service		3	15	45	63
National Ocean Service			3	11	14
National Weather Service			3	27	30
NOAA Corporate Offices				1	1
Office of Marine & Aviation Operations			2	9	11
Office of Oceanic & Atmospheric Research				4	4
Under Secretary of Commerce					
Grand Total		3	25	102	130

*Includes all personnel FTE. contractors, etc.), all incident types (injury, motor vehicle, property, environmental, etc.).

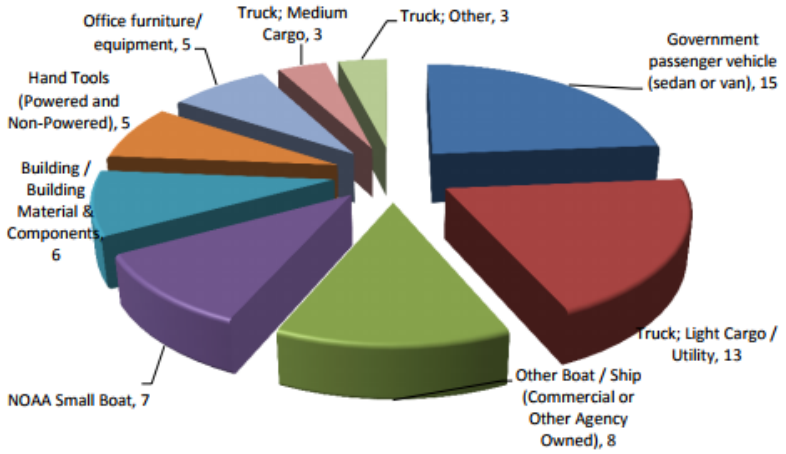
FY2013-2017 PERFORMANCE COMPARISON



NOAA FY2017 ACCIDENT TRENDS



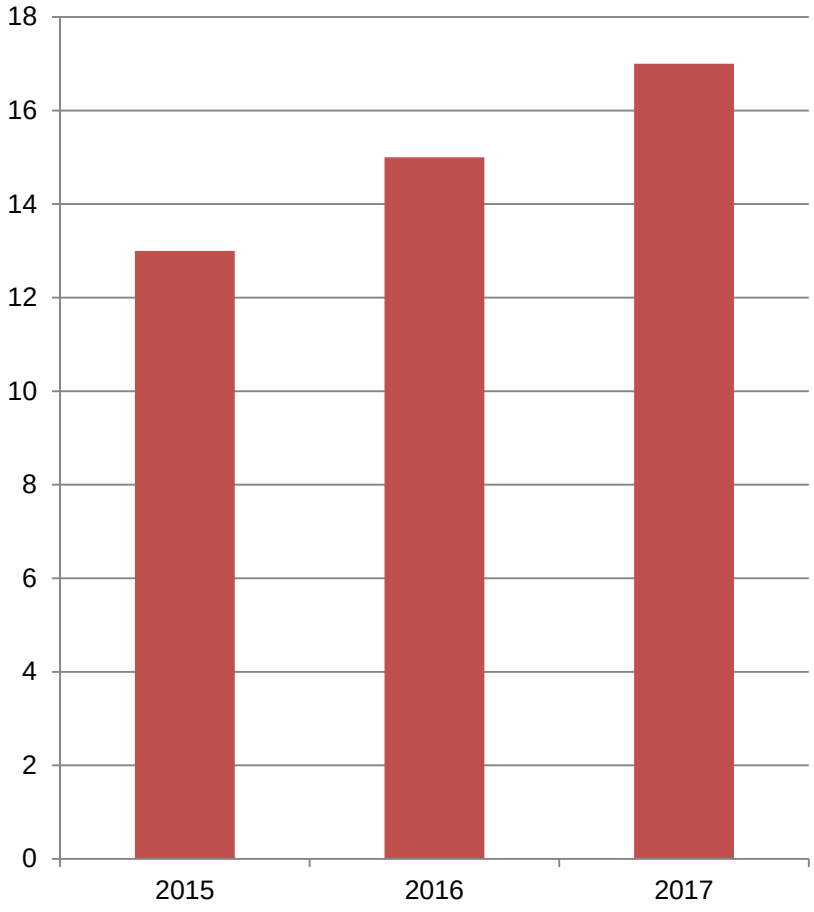
EQUIPMENT TYPE- PERCENT OF INCIDENTS



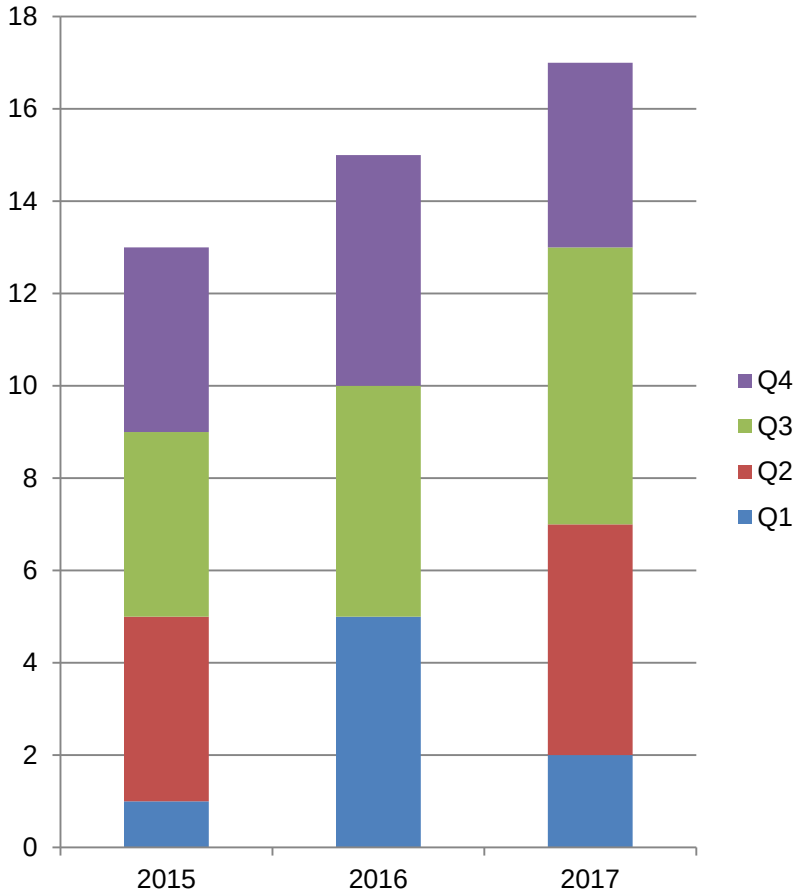
All data current as of 7/17/2017

Small Boat Incidents

FY2015 - 2017 Reported Small Boat Related Accidents

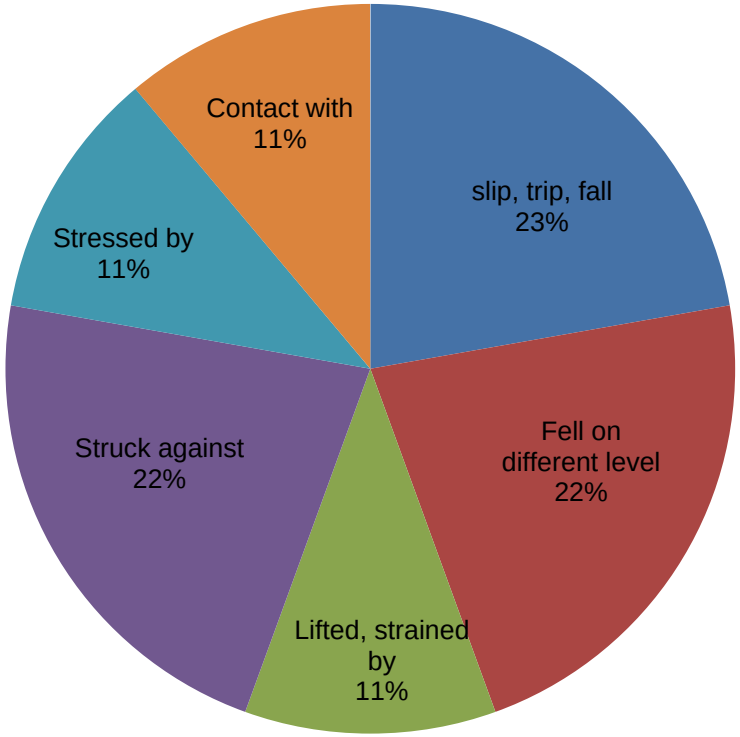


FY2015 - 2017 Reported Small Boat Related Accidents by Quarter

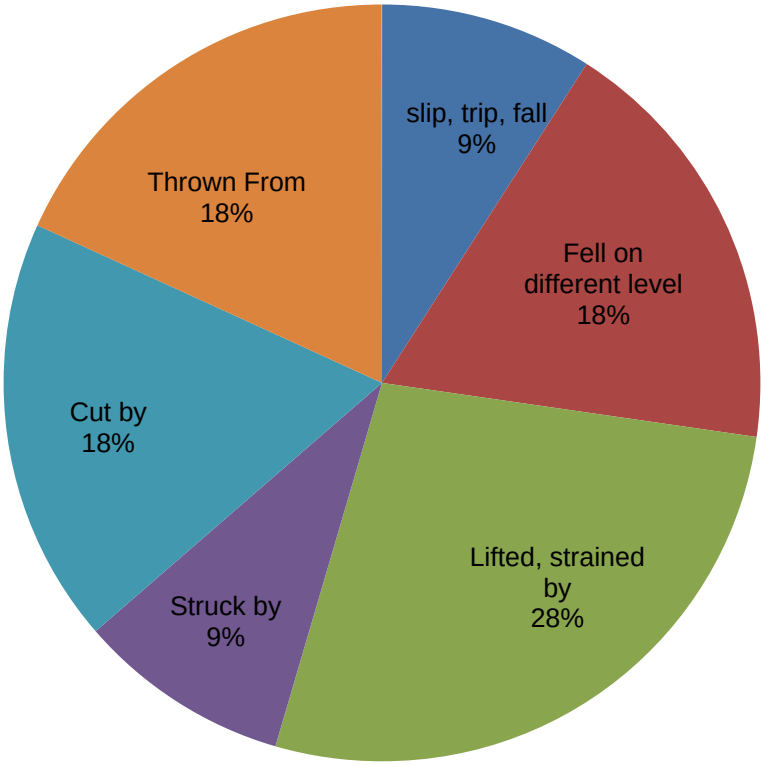


2016 - 2017 Small Boat Incidents

2016 Accident by Injury Type

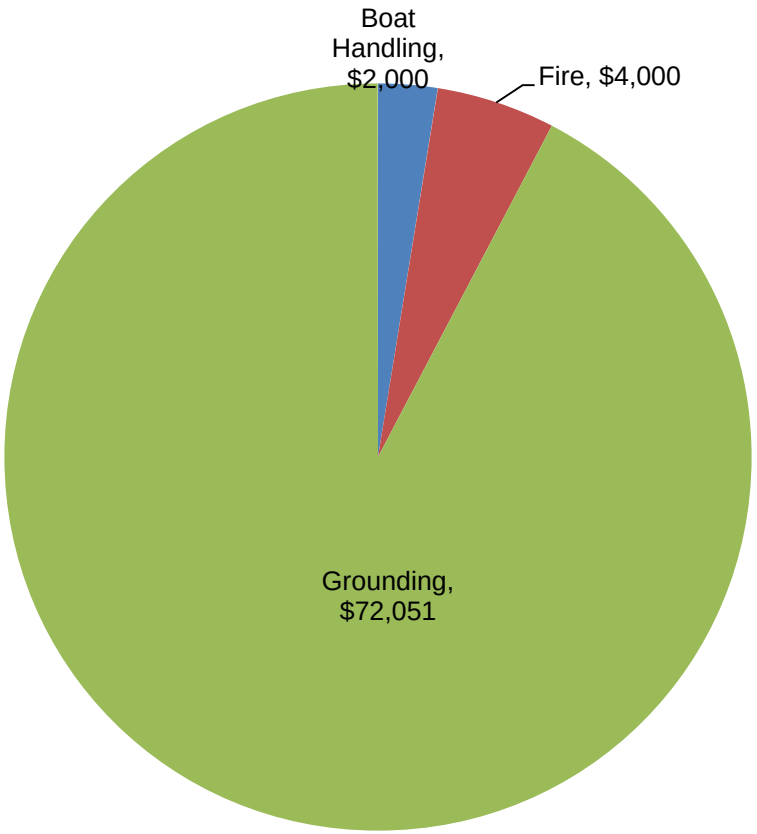


2017 Accident by Injury Type

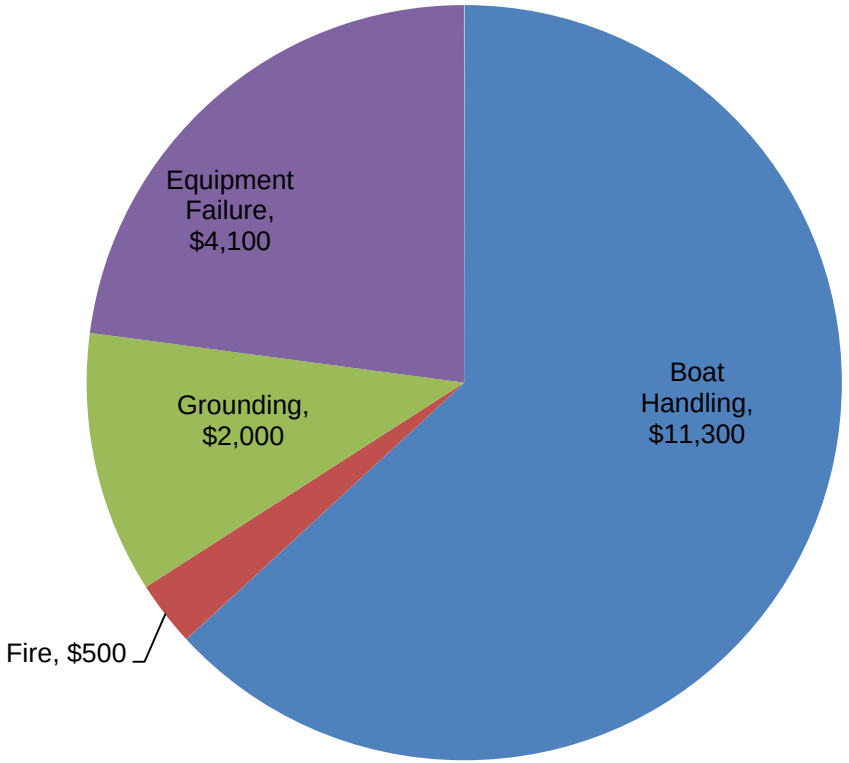


2016 - 2017 Small Boat Incidents

2016 Equipment Damage Cost ($)

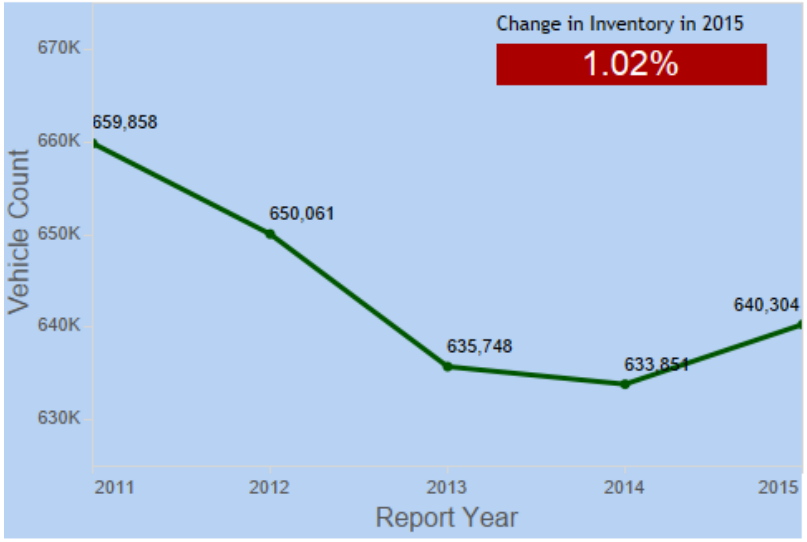


2017 Equipment Damage Cost ($)

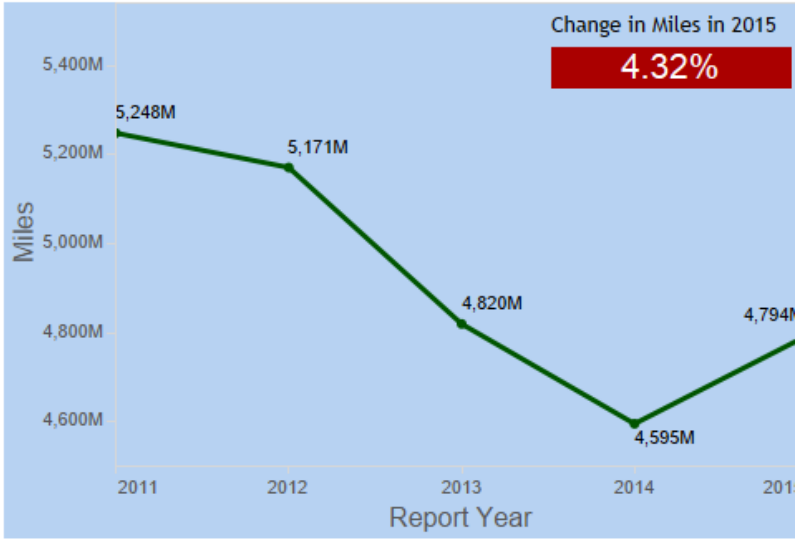


Executive Summary of the U.S. Government Vehicle Fleet

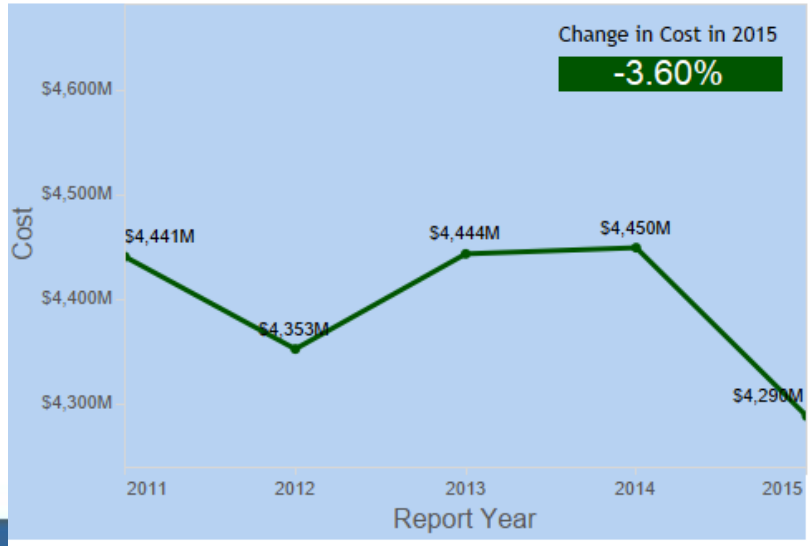
Inventory of Federal Vehicles



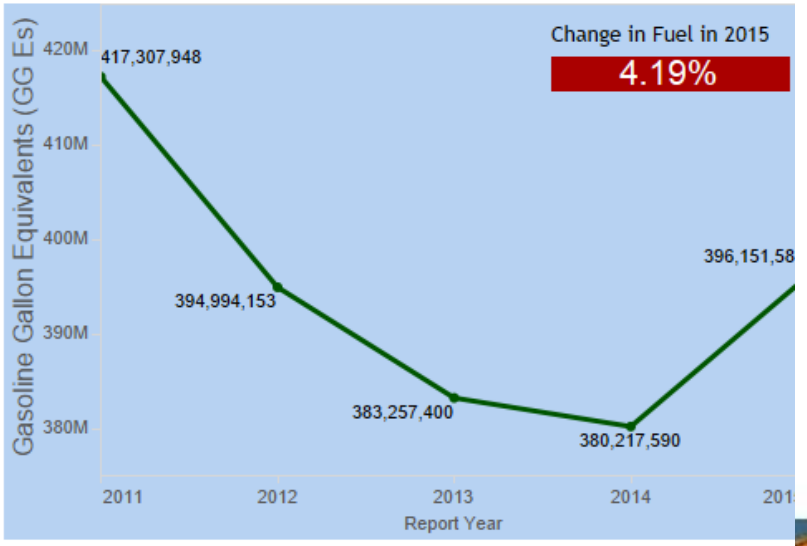
Miles Traveled by Federal Vehicles



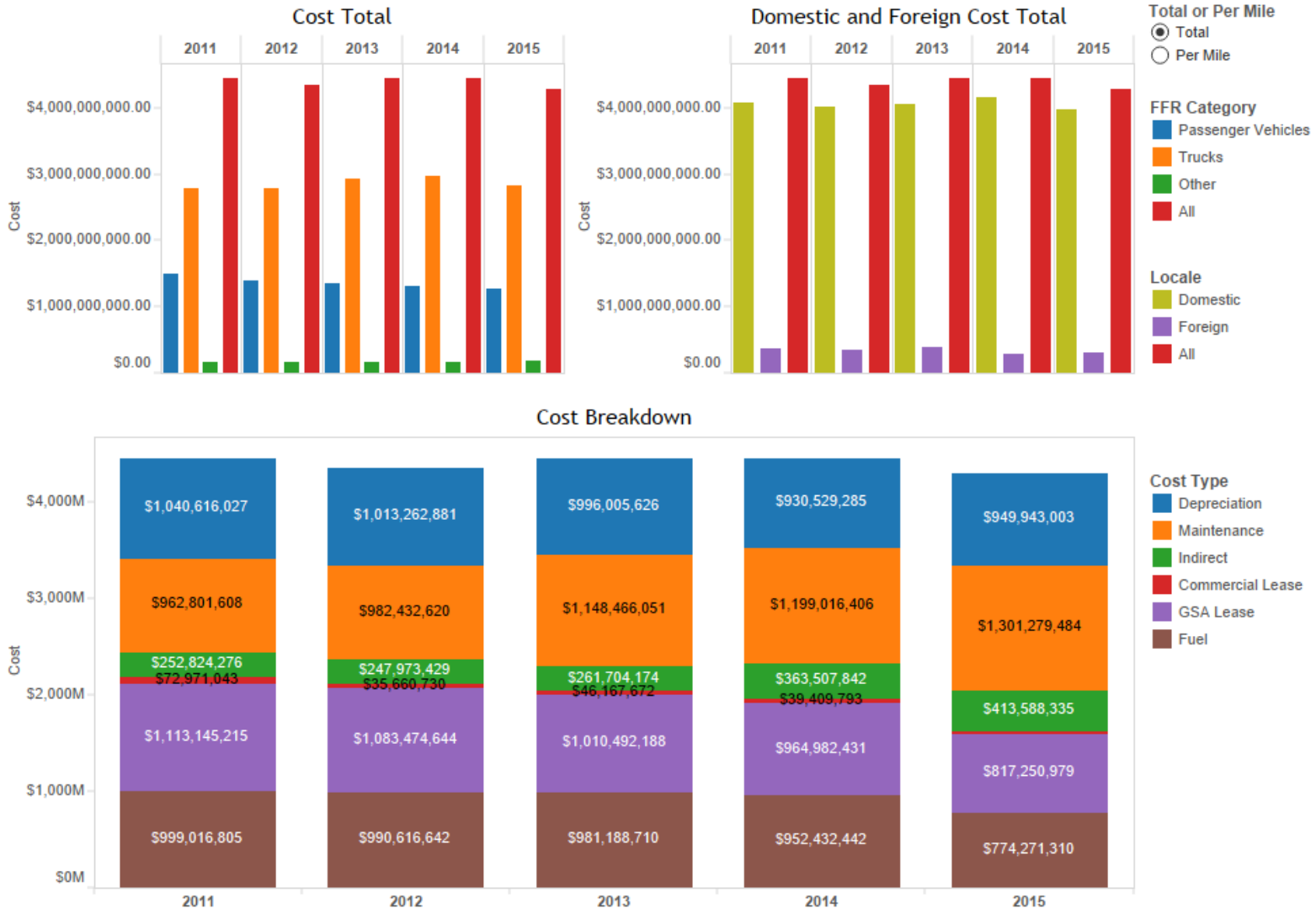
Federal Vehicle Costs



Federal Fuel Consumption

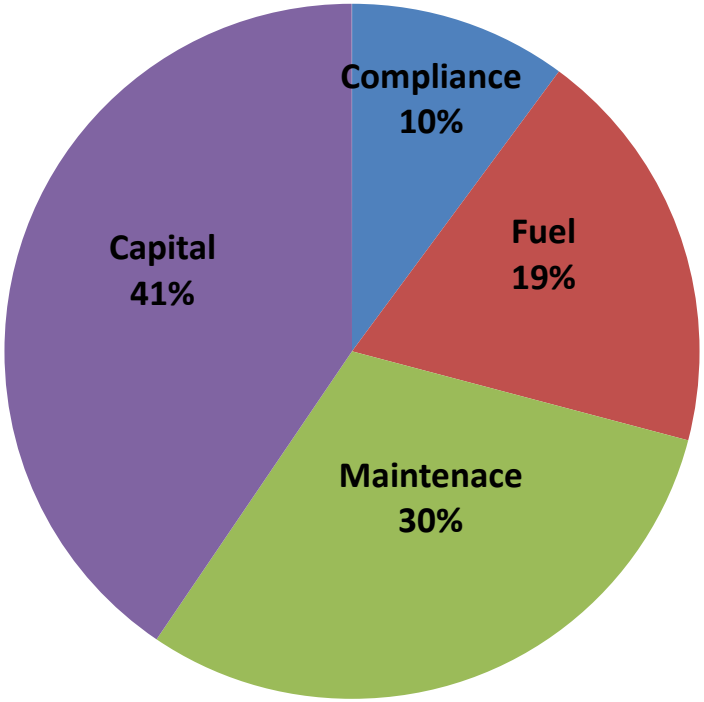


Governmentwide Cost Dashboard

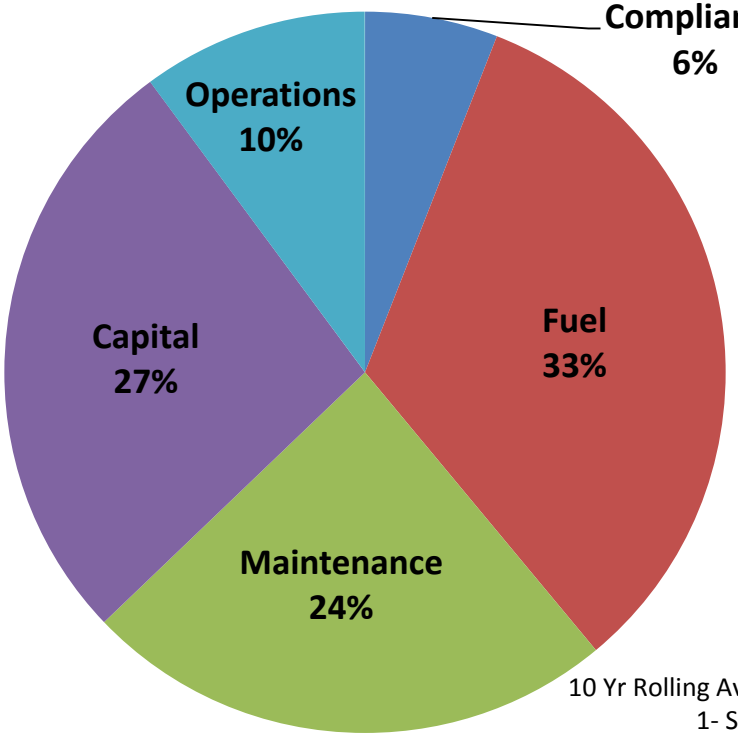


SA Lease Cost includes fuel. The section for Fuel therefore is only for non-GSA Fleet vehicles. Maintenance and overhead for GSA Fleet vehicles are also included in the lease cost. he reported cost of GSA Fleet vehicles was divided by the reported miles traveled by those vehicles to produce this table. The costs shown here may not correspond to the cost per mile laimed by GSA Fleet for its overall fleet operations. GSA Fleet is the sole source of reliable and accurate data about itself.

Government Vehicle Cost History

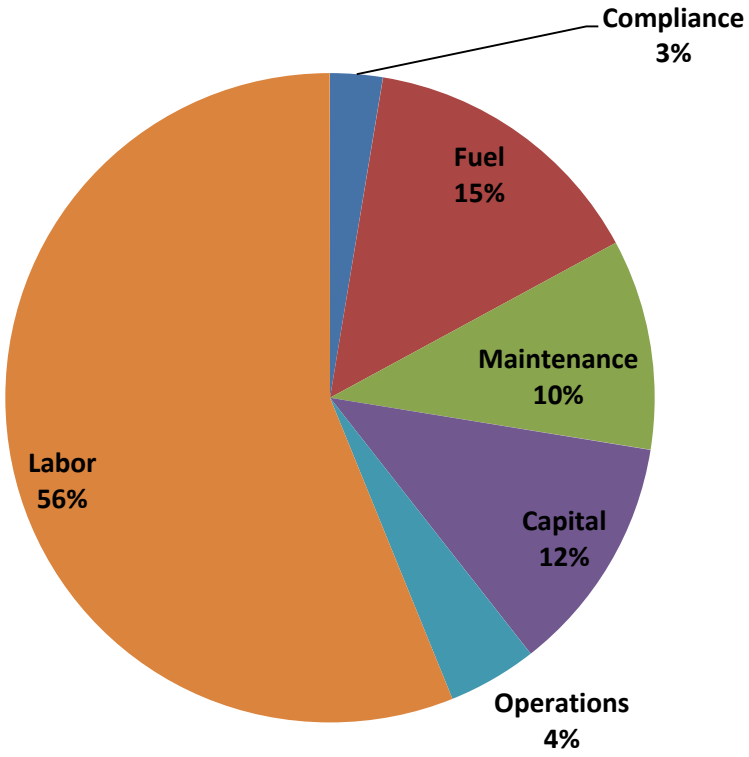


OAR GLERL Boats



10 Yr Rolling Average
1- SRV
4 – Class III
2 – Class II
2 – Class I

OAR GLERL Boats
10 yr Rolling Average



NOAA Diving Program

- **NDP Annual Report**

  "This publication's main goal is to demonstrate the importance and impact of the work NOAA divers conduct in the field, and why NDP continues to need enhanced support and funding."

NOAA Diving Program

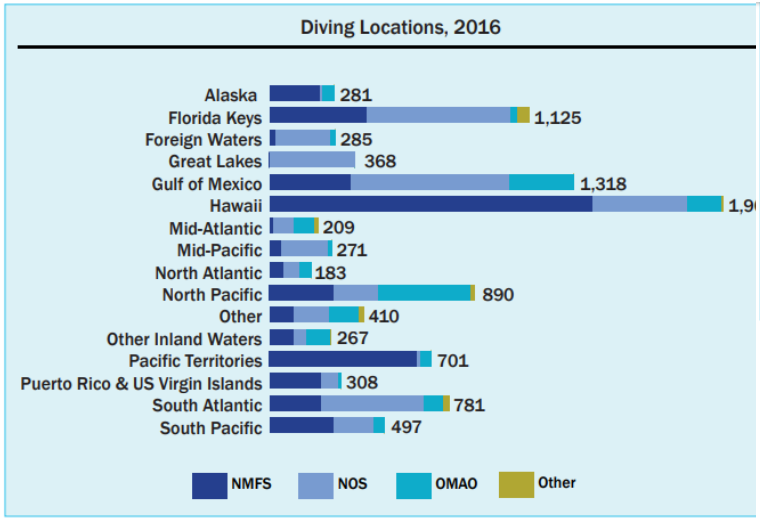


Figure 10. Diving locations, 2016.

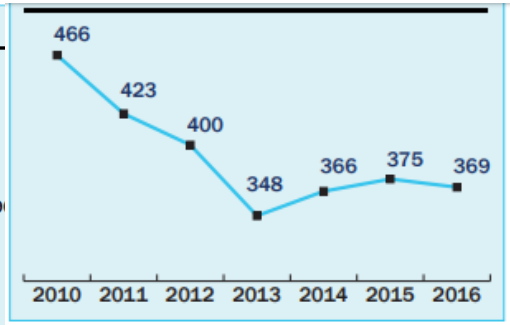


Figure 1. Number of active divers, 2016.

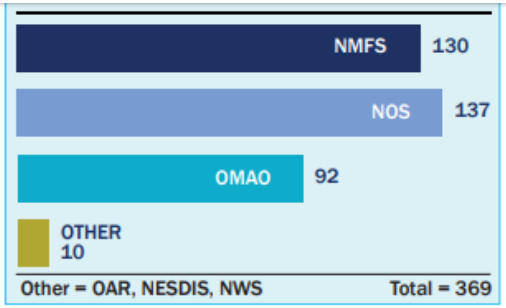


Figure 2. Active divers by line office, 2016.

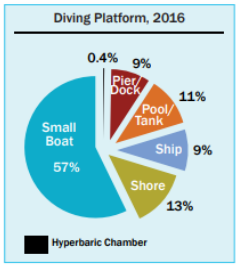


Figure 11. Diving platforms, 2016.

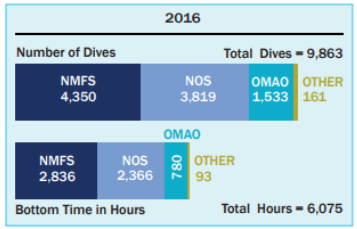


Figure 12. Number of Dives and bottom time, 2016.

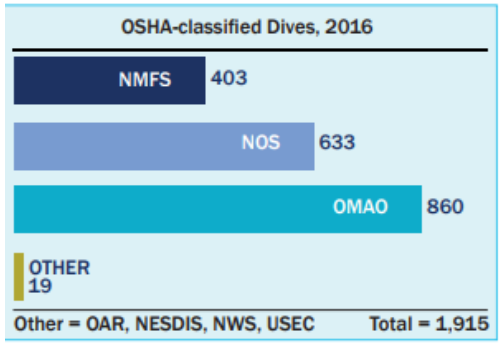


Figure 3. OSHA-classified dives, 2016.

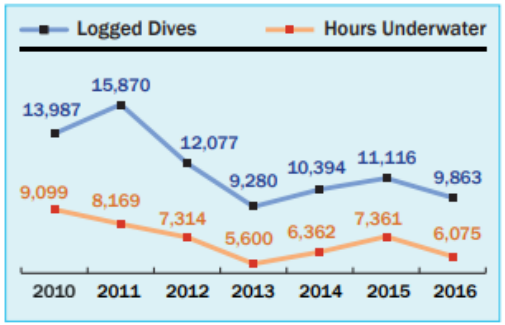


Figure 5. Logged dives and hours underwater, 2016.

NOAA Small Boat Program

- **SBP Annual Report**

  "This publication's main goal is to demonstrate the importance and impact of the work NOAA Small Boat Operators conduct in the field, and why SB Operations continue to need enhanced support and funding."

SB Fleet Characterization

- Vessel Inventory Module (VIM)
  - Line Office / Program inventories
  - Class
  - Age
  - Location
  - Construction / Power
  - Status
  - Inspections
  - Equipment / gear
- Utilization
  - ?

SBP Metrics – current requirement

- Annual summary
- Number of vessels underway / day = Float plans
- Number of persons underway / day = POB

  (persons $\propto$ mission value)

  - Excellent measure of *Exposure*
  - Good measure of *Magnitude*
  - Fair measure of *Value*

- Issues
  - Doesn't allow for trend analysis
  - Dependent upon data calls
  - Multiple data sources
    - VOP
    - Paper Float Plans
    - Logs

Current NOAA Small Boat Program Metrics

Total units reporting

- _____% (reports as a percentage of all active units)
  - Survey response = Data confidence measure

Total Vessel Float Plans

- FY17 _____ (Absolute #)
  - Missions / Calendar Days
  - >12 hrs = 2 days

Total Persons Onboard

- FY17_____ (Absolute #)
  - Embarked persons / Calendar Day
  - >12 hrs = 2 days

Incident / Accident Reports

- FY17Incident _____ (absolute #, from SECO report
- FY17 Accident_____ (absolute #, from SECO report)
- Incident / Accident rates (incidents as % of DUW, Accidents as %of POB)

%

%

Current NOAA Small Boat Program Metrics Annual Summary

Total units reporting

- _____% (reports as a percentage of all active units)
  - Survey response = Data confidence measure

Total Vessel Missions ~ Float Plans

- FY17 _____ (Absolute #)
  - Missions / Calendar Days
  - >12 hrs = 2 days

Total Persons Onboard

- FY17_____ (Absolute #)
  - Embarked persons / Calendar Day
  - >12 hrs = 2 days

Incident / Accident Reports

- FY17Incident _____ (absolute #, from SECO report
- FY17 Accident_____ (absolute #, from SECO report)
- Incident / Accident rates (incidents as % of DUW, Accidents as %of POB)

%

%

Proposed NOAA Small Boat Program Dashboard
Monthly Summary - Trends

Total units reporting

- Month / Quarter_____% (reports as a percentage of all active)
- Running Monthly reporting rates %

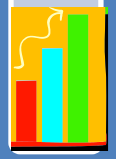
2157

Total Vessel Missions ~ Float Plans

- Month / Quarter_____ (Absolute #)
- FY to date (running graph)

Total Persons onboard

- Month / Quarter_____ (Absolute #)
- FY to date (running graph)



%

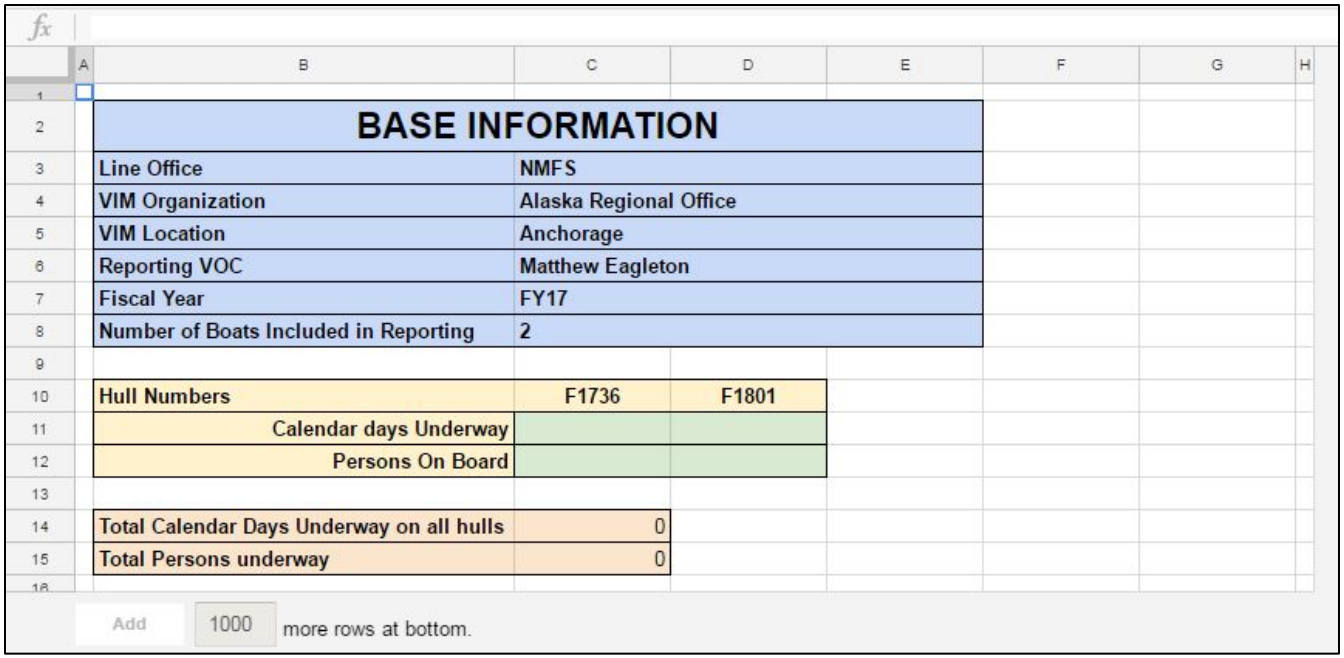
%

Incident / Accident Reports

- Month of _____ (absolute #, from SECO report)
- FY to date (absolute #, from SECO report)
- Incident / Accident rates (incidents as % of DUW, Accidents as %of POB)

Current Reporting Requirements

- Metrics are currently tracked via spreadsheet



BASE INFORMATION	
Line Office	NMFS
VIM Organization	Alaska Regional Office
VIM Location	Anchorage
Reporting VOC	Matthew Eagleton
Fiscal Year	FY17
Number of Boats Included in Reporting	2

Hull Numbers	F1736	F1801
Calendar days Underway		
Persons On Board		

Total Calendar Days Underway on all hulls	0
Total Persons underway	0

Add 1000 more rows at bottom.

- Tracks: days at sea, number of people carried

Discussion