



# Incident History Database (IHDB)

SAR Controllers Training 2018

March 2018

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ERT, Inc.





# Overview

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- The Incident History Database (IHDB)
  - Contains records for beacon activations in the US service area
    - Records are created when sites close (beacon stops transmitting)
    - Records are:
      - Populated by US RCC Controllers
      - Populated by USMCC Controllers (for SPOCs)
      - Checked by USMCC Controllers and USMCC operations staff
  - Is maintained by NOAA
  - Is the historical record of why a beacon activated



# Uses of IHDB Information

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## Resource for:

- RCC Controllers for previous activation history
- NOAA reporting (daily, weekly, quarterly, and annually)
- Annual report to COSPAS-SARSAT
- US Coast Guard and the US Air Force for reports
- Continuous research
  - Beacon reliability – reported at annual Beacon Manufacturer's Workshop
  - Identify repeat offenders (to reduce false alerts)
  - RGDB accuracy
  - More (e.g., further analysis on suspect MEOSAR alerts)



# Access to the IHDB

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- Request new accounts through:
  - For AFRCC/AKRCC
    - Dan Conley, AFRCC SAR Duty Officer  
Danny.Conley@tyndall.af.mil
  - For USCG
    - LCDR Erin Boyle, SARSAT Liaison Officer  
Erin.m.Boyle@uscg.mil
- USMCC Controller can reset passwords



# IHDB False Alert Reason

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- Beacon Mishandling
- Beacon Malfunction
- Mounting Failure
- Environmental Conditions
- Unknown



# IHDB False Alert Reason

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- Beacon Mishandling
  - False Alert – Mishandling – Installation
    - Exposed to sea action or ship's work, equipment struck beacon, **improperly placing beacon in bracket.**



# IHDB False Alert Reason

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- Beacon Mishandling
  - False Alert – Mishandling – Installation
  - False Alert – Mishandling – Testing/Maintenance
    - Failure to follow proper testing procedures
    - Repair by owner or service center causing activation.
    - Improper removal from bracket while testing, cleaning.
    - Beacon shipped while armed and activated.
    - Maintenance of craft, wash down, winterization, painting
    - Beacon stored improperly



# IHDB False Alert Reason

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- Beacon Mishandling
  - False Alert – Mishandling – Installation
  - False Alert – Mishandling – Testing
  - False Alert – Usage
    - Illegal activation: hoax, vandalism, theft
    - Accidental activation: reported, NFI
    - Demonstrated / test not coordinated.





# IHDB False Alert Reason

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- Beacon Mishandling
  - False Alert – Mishandling – Installation
  - False Alert – Mishandling – Testing
  - False Alert – Mishandling – Usage
  - False Alert – Mishandling – Disposal
    - Beacon discarded as trash, abandoned.



# IHDB False Alert Reason

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- Beacon Malfunction
  - False Alert – Malfunction – Switch
    - Switch broken



# IHDB False Alert Reason

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- Beacon Malfunction
  - False Alert – Malfunction – Switch
  - False Alert – Malfunction – Water Intrusion
    - Water leakage due to manufacturing defect, cracked casing, faulty seal.



# IHDB False Alert Reason

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- Beacon Malfunction
  - False Alert – Malfunction – Switch
  - False Alert – Malfunction – Water Intrusion
  - False Alert – Malfunction – Test



# IHDB False Alert Reason

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- Beacon Malfunction
  - False Alert – Malfunction – Switch
  - False Alert – Malfunction – Water Intrusion
  - False Alert – Malfunction – Test
  - False Alert – Malfunction – Electronics
    - Electronics malfunction
    - Non-GPS electronics malfunction



# IHDB False Alert Reason

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- Mounting Failure
  - False Alert – Mounting – Bracket
    - Strap or bracket failure
    - Beacon fell out of bracket



# IHDB False Alert Reason

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- Mounting Failure
  - False Alert – Mounting – Bracket
  - False Alert – Mounting – Mounting Release



# IHDB False Alert Reason

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- Mounting Failure
  - False Alert – Mounting – Bracket
  - False Alert – Mounting – Mounting Release
  - False Alert – Mounting – Magnet





# IHDB False Alert Reason

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- Environment Conditions
  - False Alert – Environmental Conditions

# False Alert - Environmental Conditions - NO



# False Alert - Environmental Conditions - YES

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# IHDB False Alert Reason

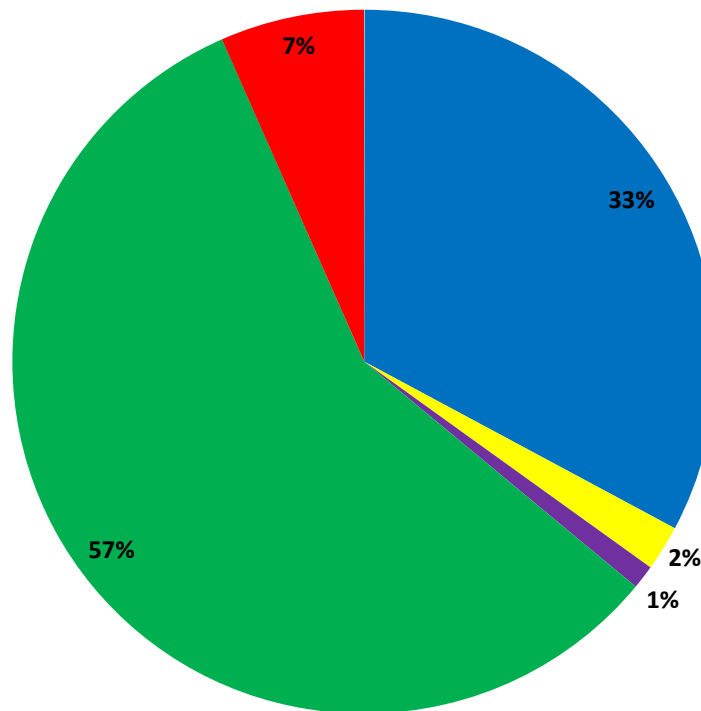
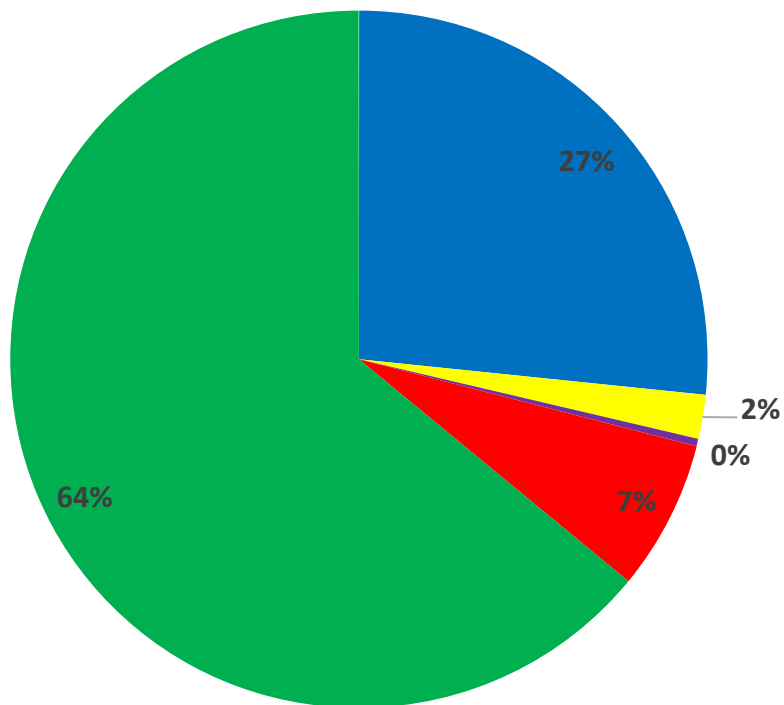
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- Unknown
  - False Alert – Reason Unknown
    - Confirmed Beacon False Alert
    - No feedback on why activated
    - Investigation in to beacon activation cause was inconclusive.



# AFRCC 2016

# AFRCC 2017

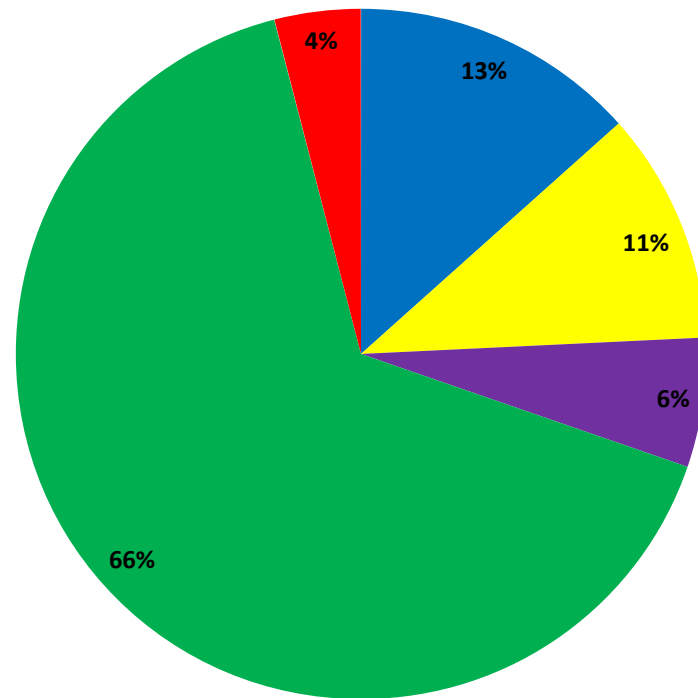
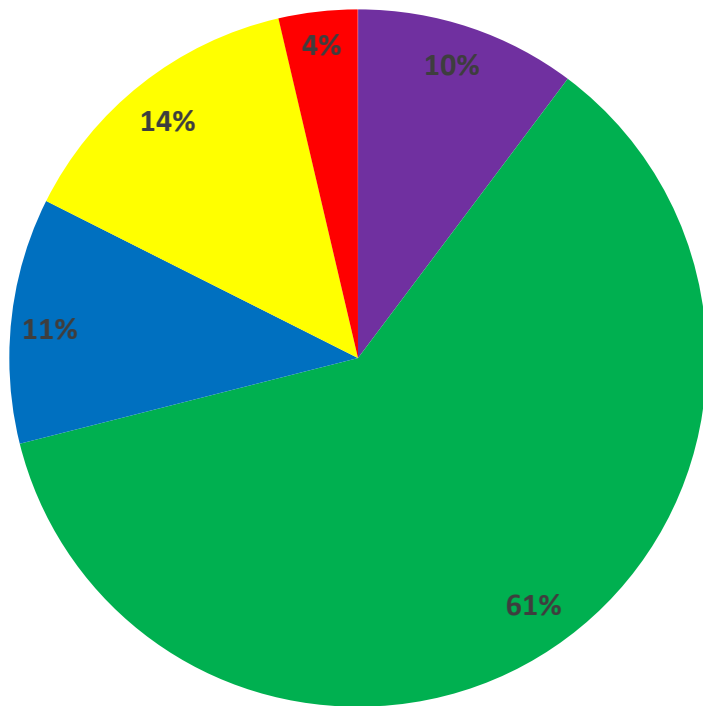


■ Ceased/Undetermined   ■ Distress   ■ Linked Site   ■ (Unassigned)   ■ Non-Distress



# AKRCC 2016

# AKRCC 2017

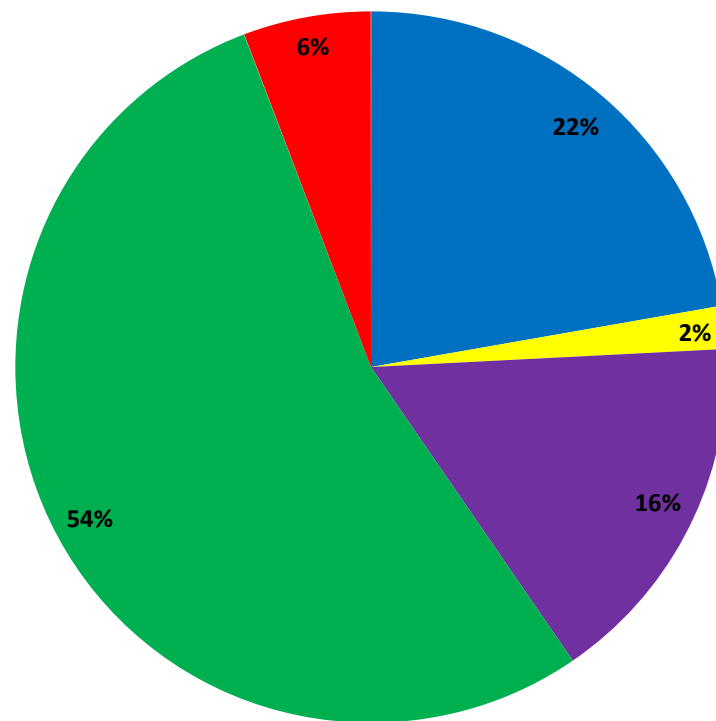
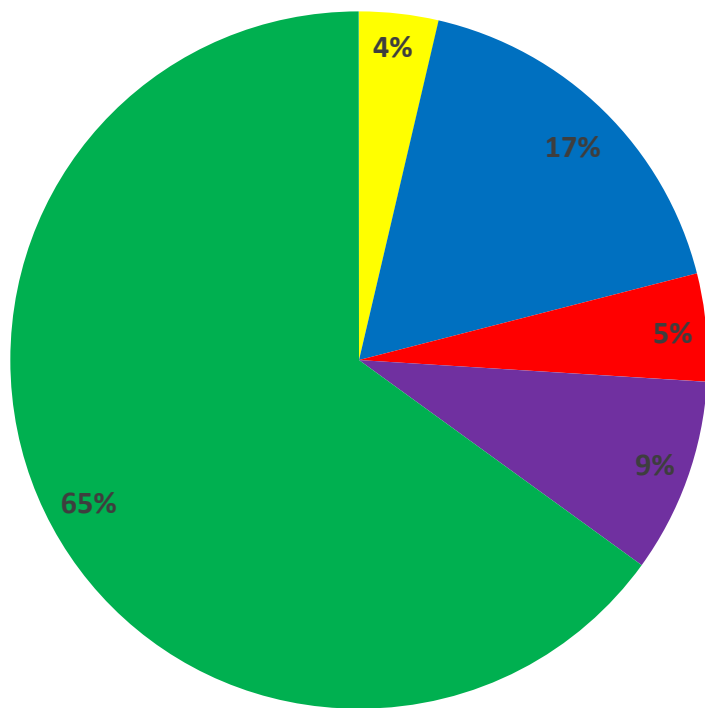


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# CGD01 2016

# CGD01 2017

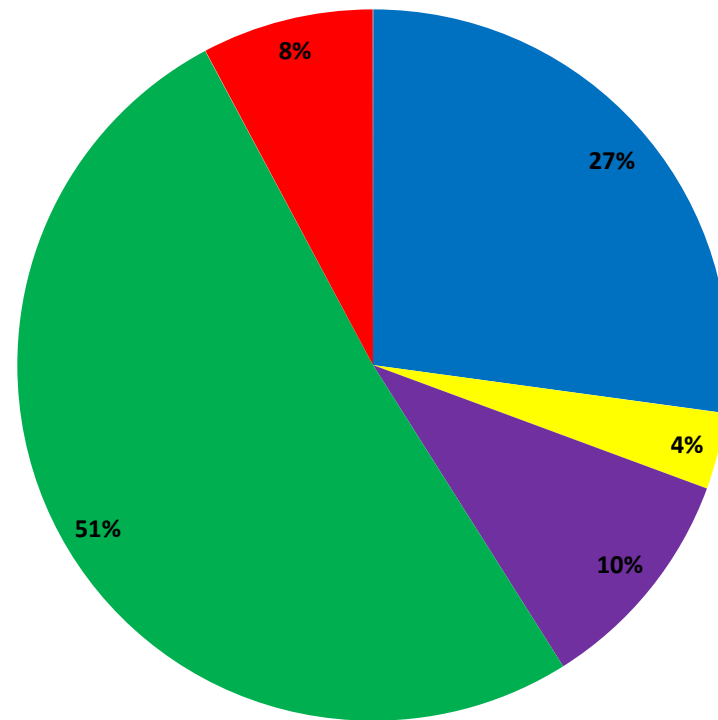
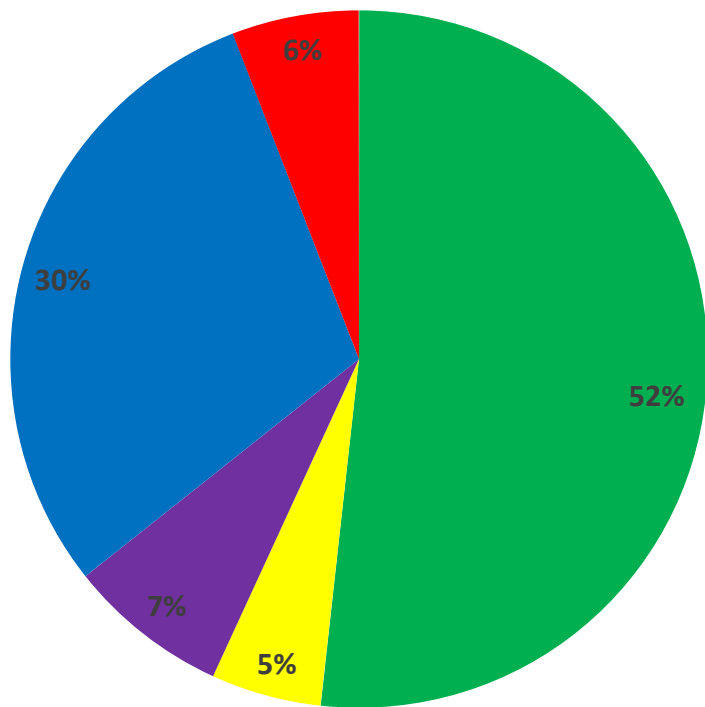


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# CGD05 2016

# CGD05 2017



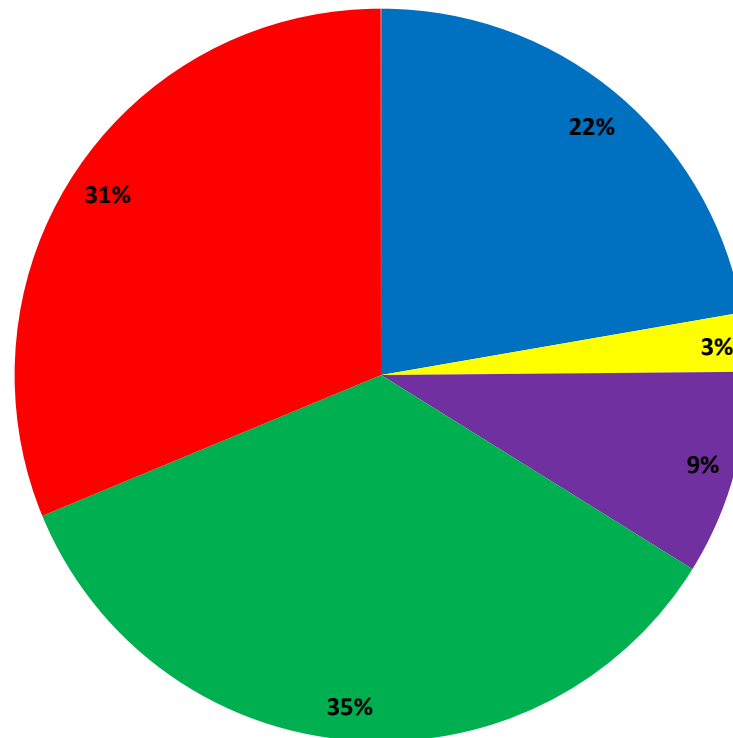
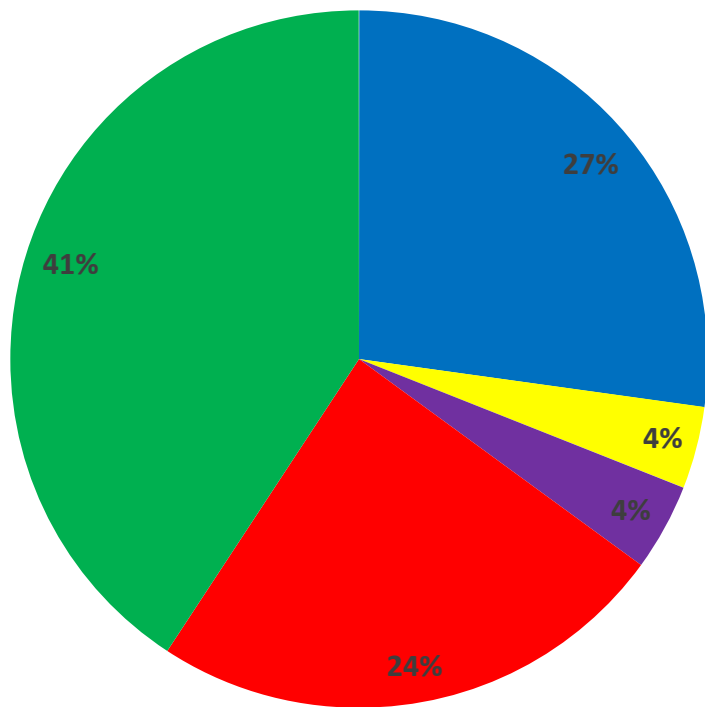
■ Ceased/Undetermined   ■ Distress   ■ Linked Site   ■ (Unassigned)   ■ Non-Distress





# CGD07 2016

# CGD07 2017

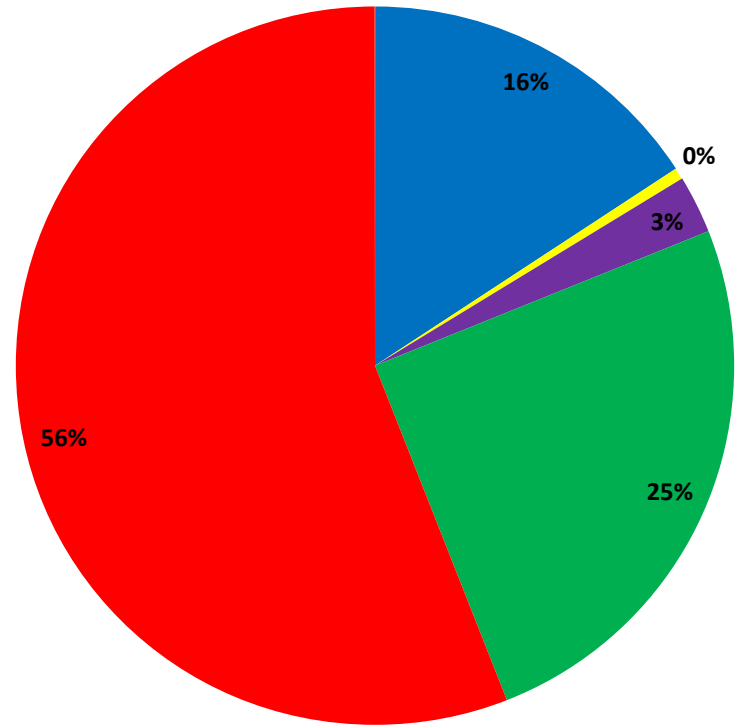
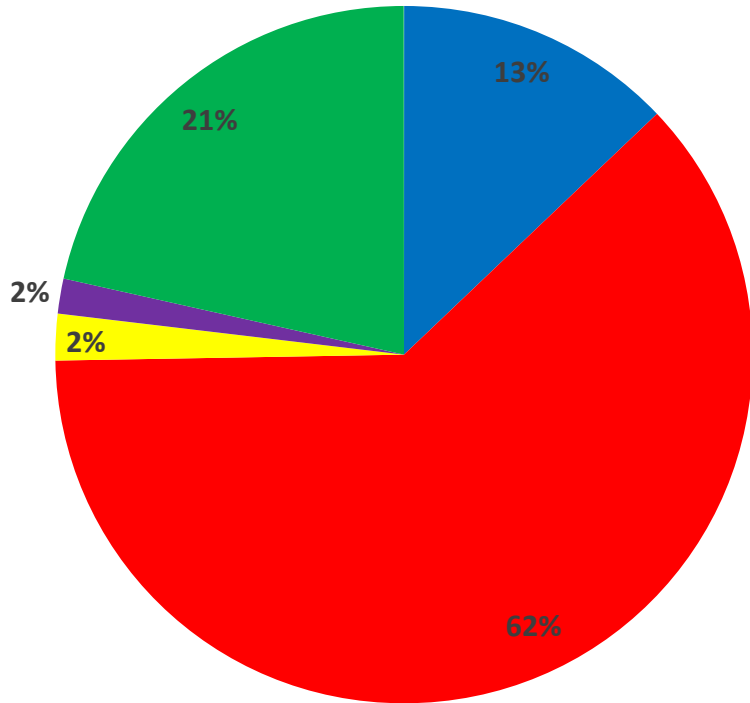


■ Ceased/Undetermined   ■ Distress   ■ Linked Site   ■ (Unassigned)   ■ Non-Distress



# SANJN 2016

# SANJN 2017

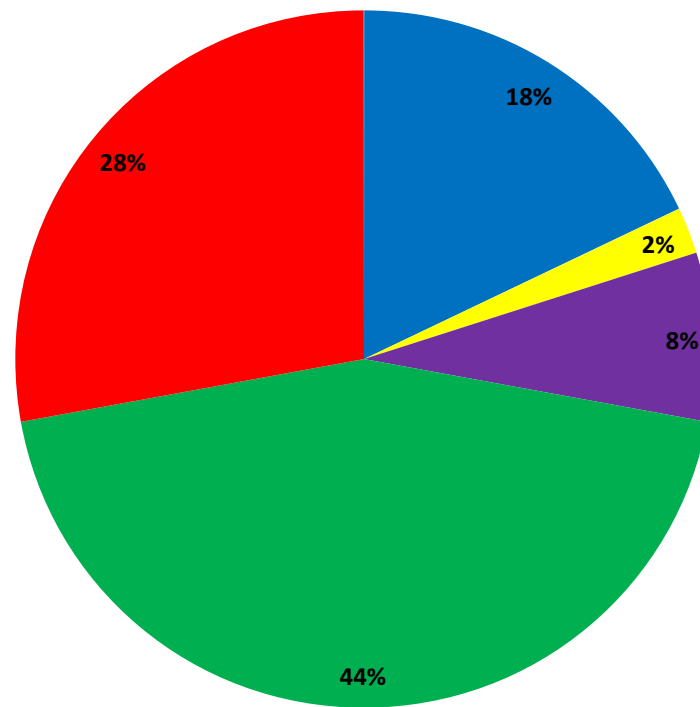
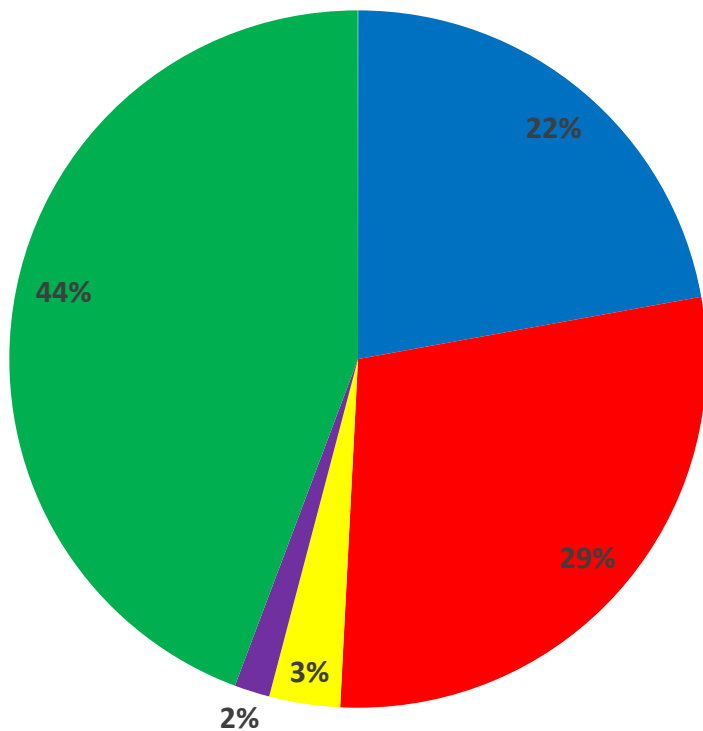


■ Ceased/Undetermined   ■ Distress   ■ Linked Site   ■ (Unassigned)   ■ Non-Distress



# CGD08 2016

# CGD08 2017

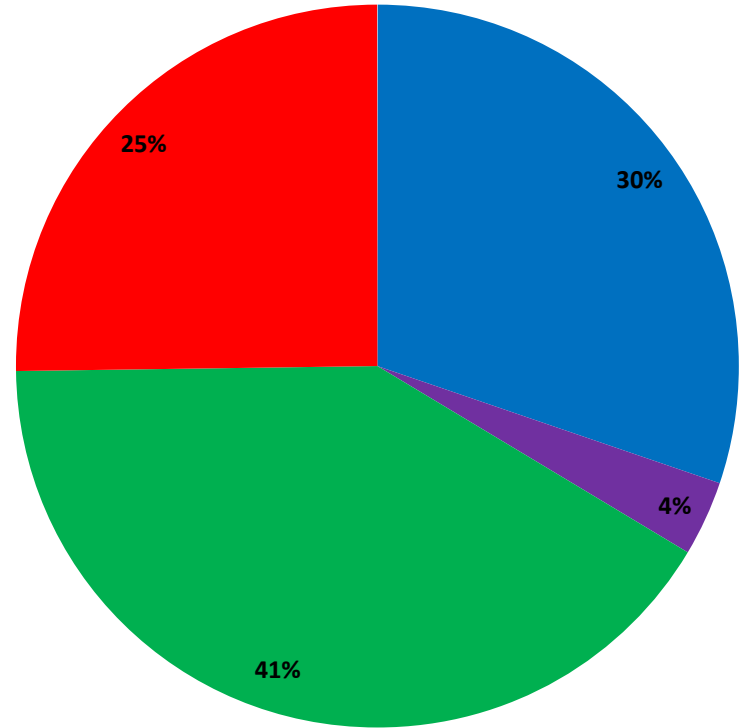
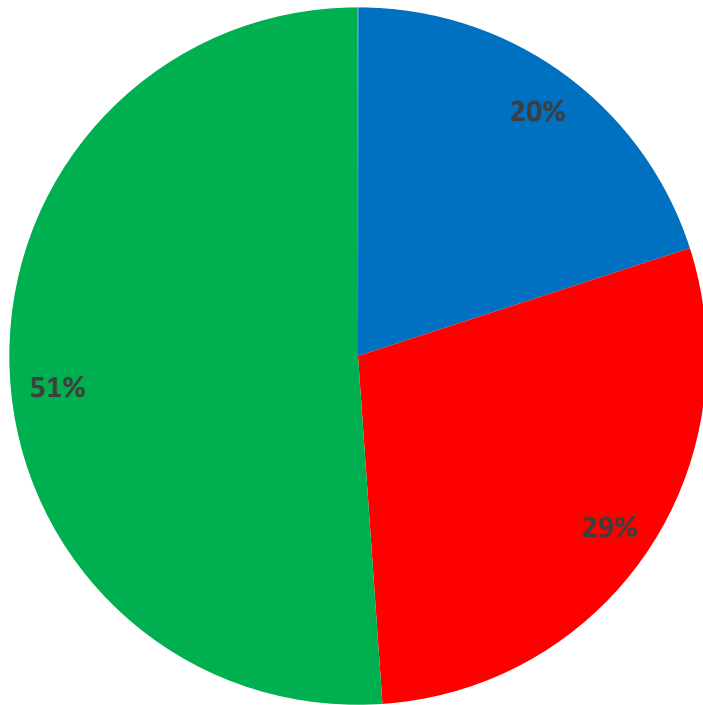


■ Ceased/Undetermined   ■ Distress   ■ Linked Site   ■ (Unassigned)   ■ Non-Distress



# CGD09 2016

# CGD09 2017

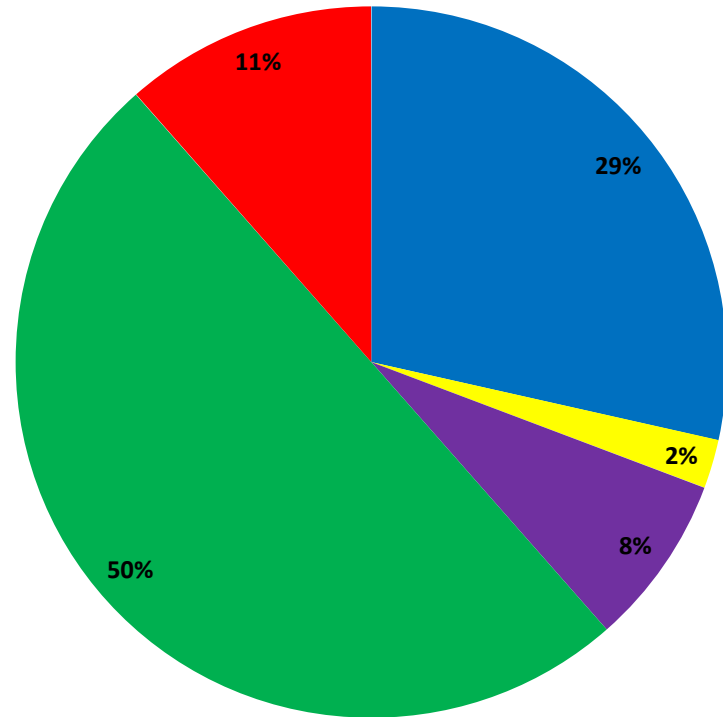
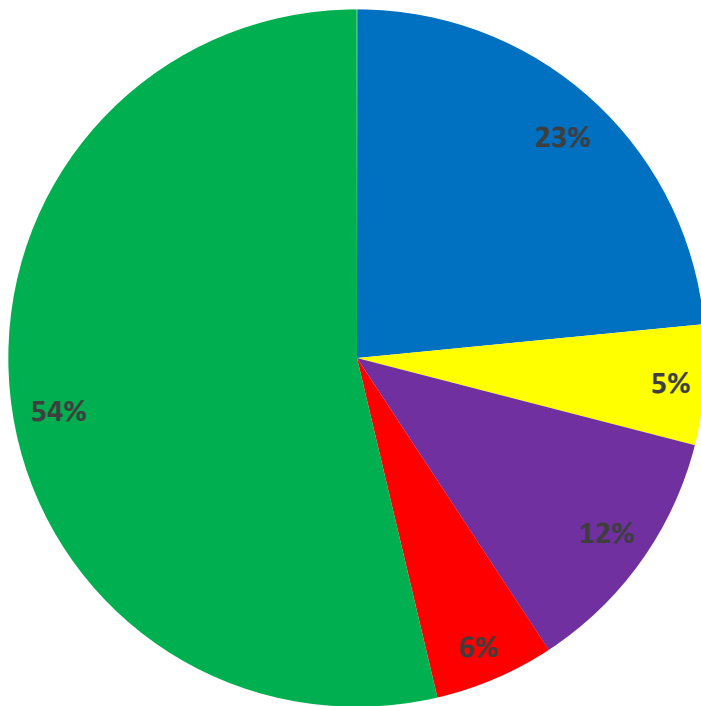


■ Ceased/Undetermined   ■ Distress   ■ Linked Site   ■ (Unassigned)   ■ Non-Distress



## CGD13 2016

## CGD13 2017

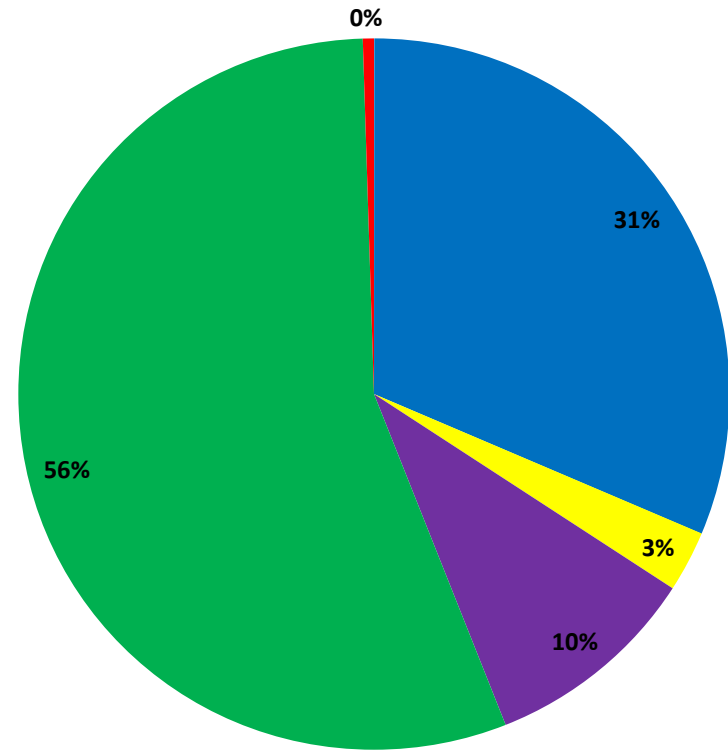
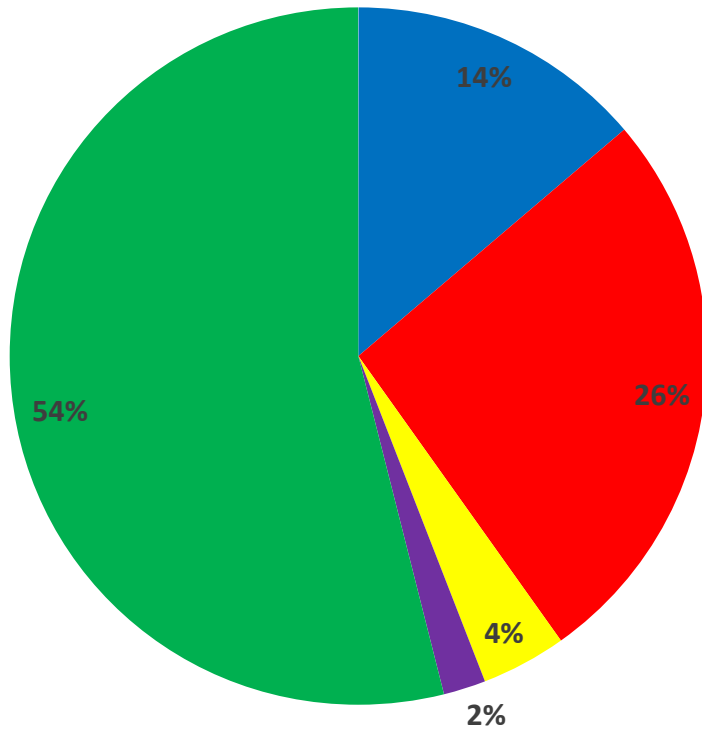


■ Ceased/Undetermined   ■ Distress   ■ Linked Site   ■ (Unassigned)   ■ Non-Distress



# CGD14 2016

# CGD14 2017

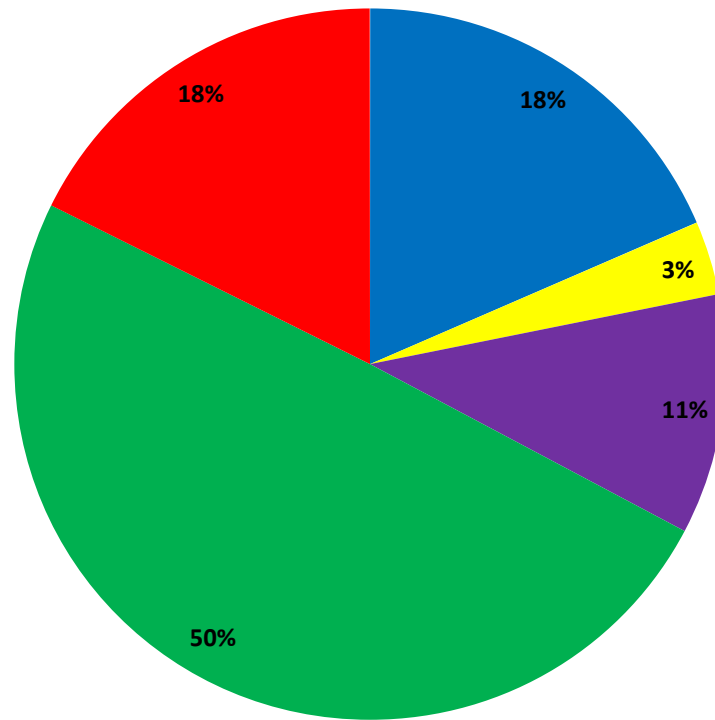
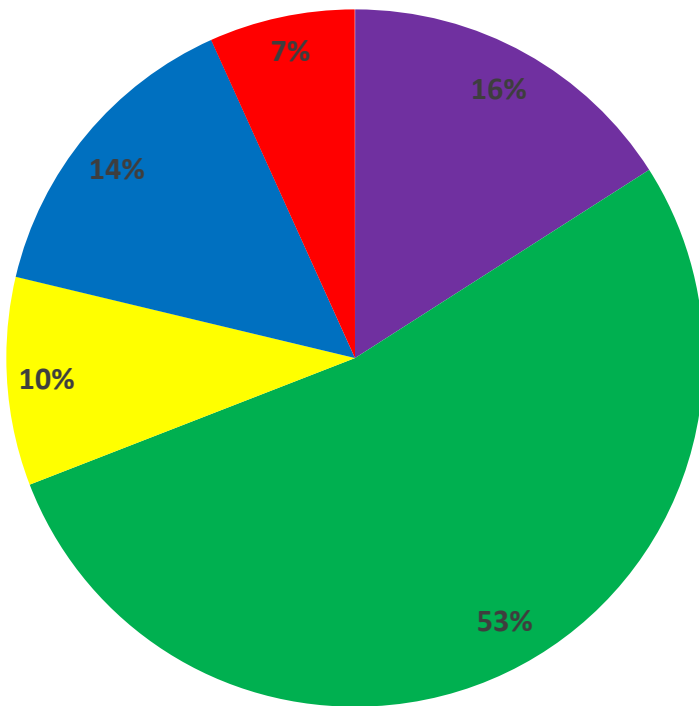


■ Ceased/Undetermined   ■ Distress   ■ Linked Site   ■ (Unassigned)   ■ Non-Distress



# CGD17 2016

# CGD17 2017

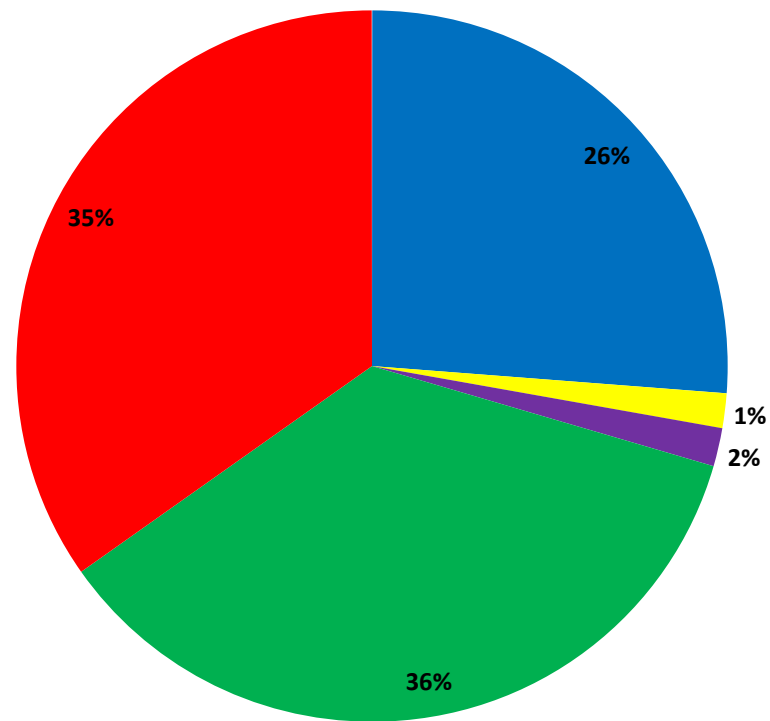
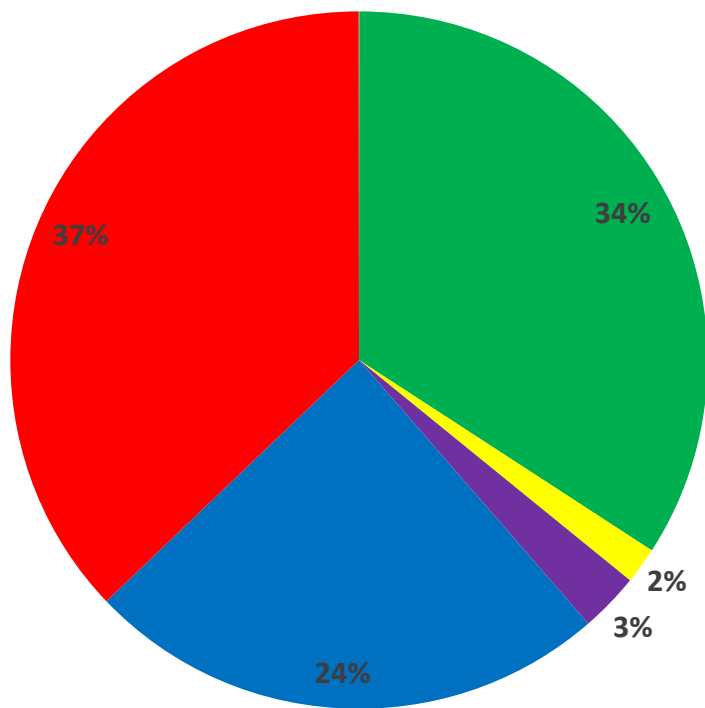


■ Ceased/Undetermined   ■ Distress   ■ Linked Site   ■ (Unassigned)   ■ Non-Distress



## PACAREA 2016

## PACAREA 2017



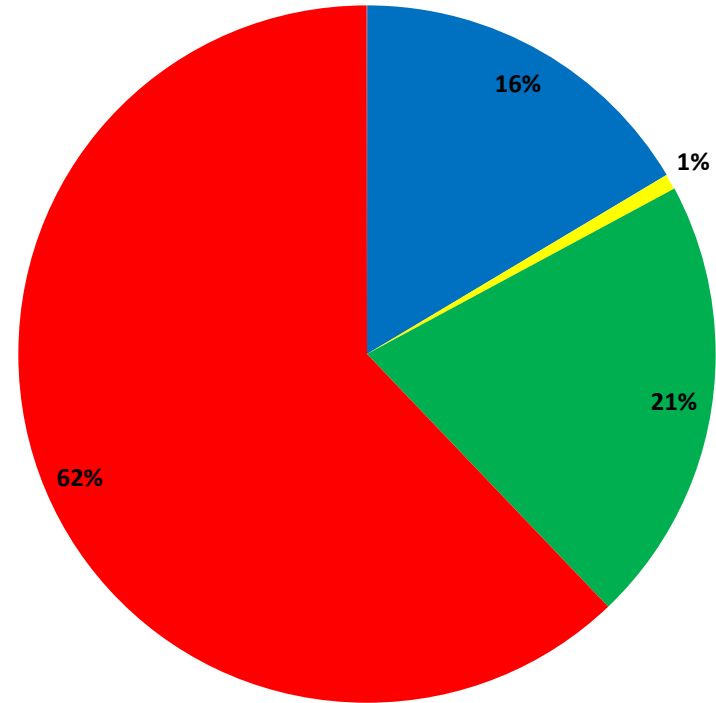
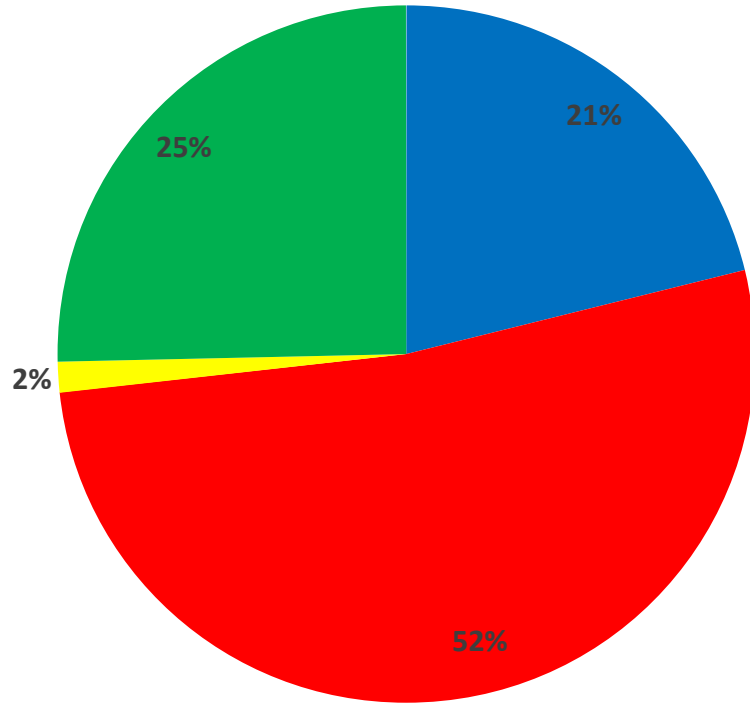
■ Ceased/Undetermined ■ Distress ■ Linked Site ■ (Unassigned) ■ Non-Distress





# MARSEC 2016

# MARSEC 2017



■ Ceased/Undetermined    ■ Distress    ■ (Unassigned)    ■ Non-Distress