



Incident History Database (IHDB)

SAR Controllers Training 2018

6 - 8 March 2018

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Chief USMCC

ERT, Inc.





Overview

- 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

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)



Current Access to the IHDB

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



IHDB False Alert Reason

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



IHDB False Alert Reason

- 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

- 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

- 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

- 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

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



IHDB False Alert Reason

- Beacon Malfunction
 - False Alert – Malfunction – Switch
 - False Alert – Malfunction – Water Intrusion
 - Water leakage due to manufacturing defect, cracked casing, faulty seal.
 - **Not** exterior of beacon getting wet.



IHDB False Alert Reason

- Beacon Malfunction
 - False Alert – Malfunction – Switch
 - False Alert – Malfunction – Water Intrusion
 - False Alert – Malfunction – Test
 - Transmitted non-inverted frame (?)



IHDB False Alert Reason

- 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

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



IHDB False Alert Reason

- Mounting Failure
 - False Alert – Mounting – Bracket
 - False Alert – Mounting – Mounting Release
 - Hydrostatic release failure (?)



IHDB False Alert Reason

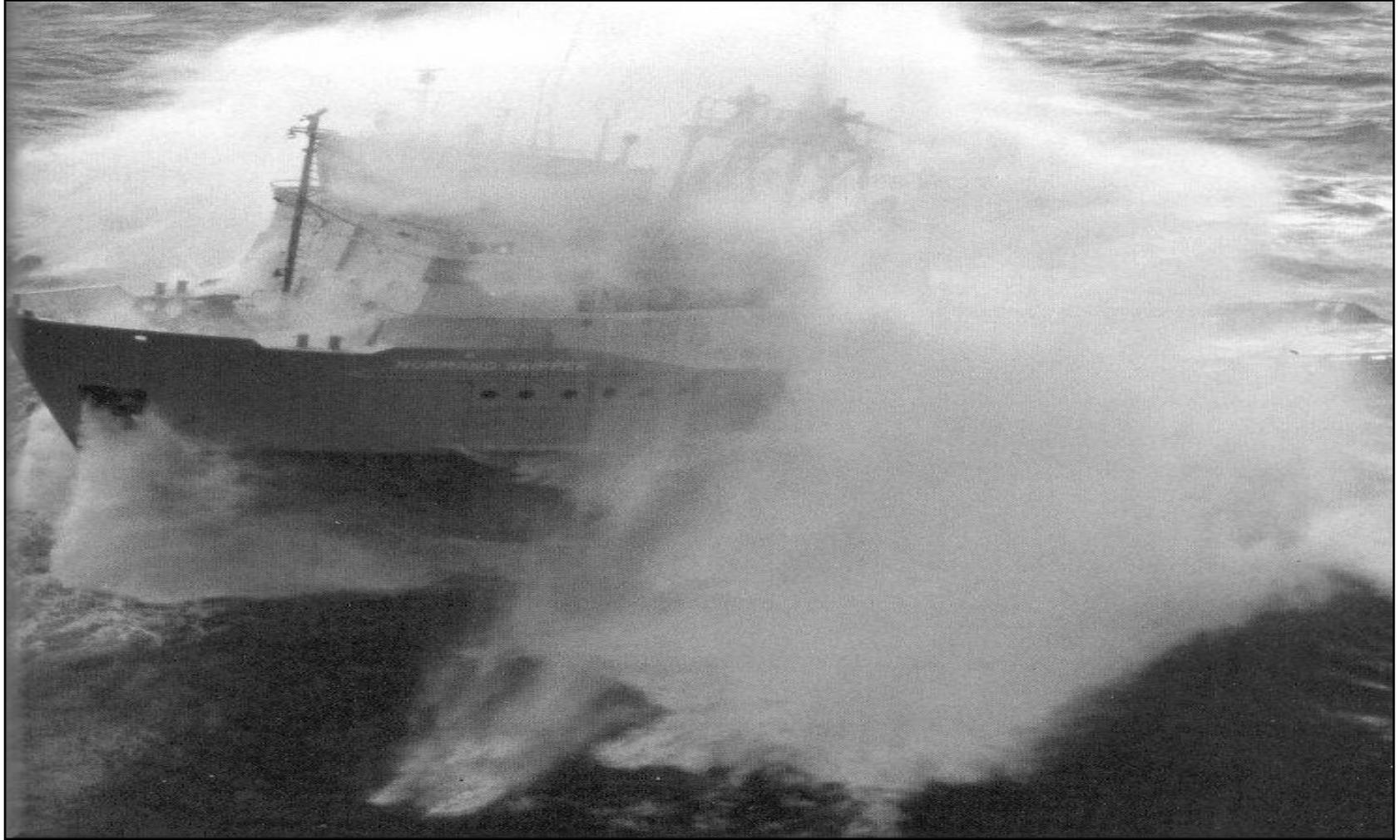
- Mounting Failure
 - False Alert – Mounting – Bracket
 - False Alert – Mounting – Mounting Release
 - False Alert – Mounting – Magnet
 - Switch magnet not effective or missing.



IHDB False Alert Reason

- Environment Conditions
 - False Alert – environmental Conditions
 - Extreme Weather conditions (?)
 - Hurricane / cyclone conditions, vsl knocked down, heavy seas, ice build-up. (?)

False Alert - Environmental Conditions - NO



False Alert - Environmental Conditions - YES





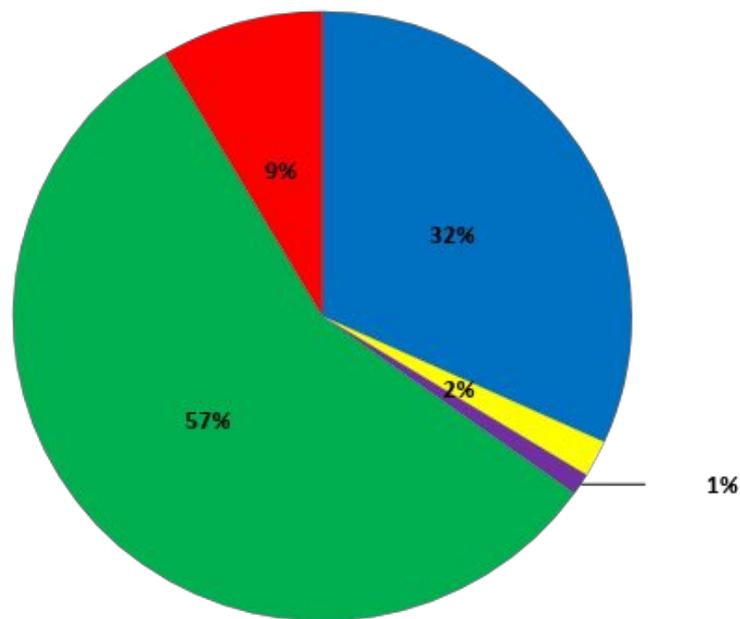
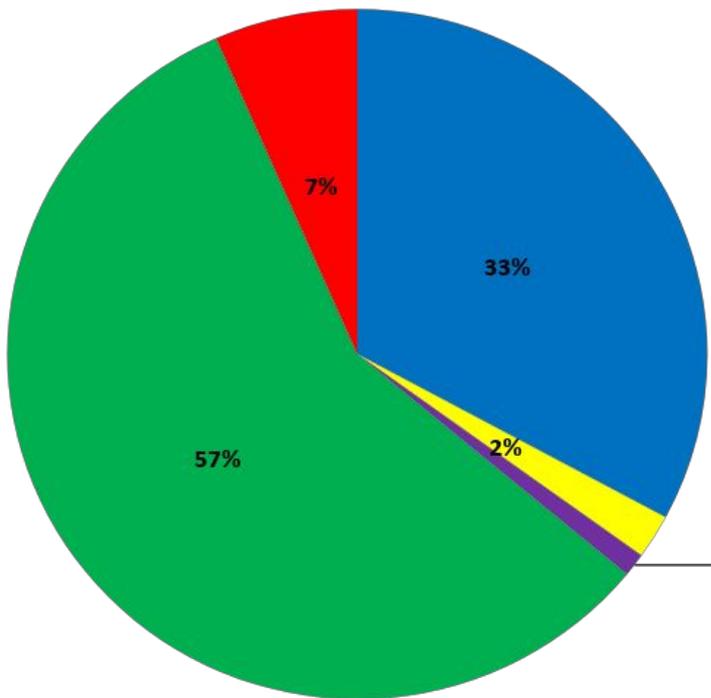
IHDB False Alert Reason

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



AFRCC 2017

AFRCC 2018



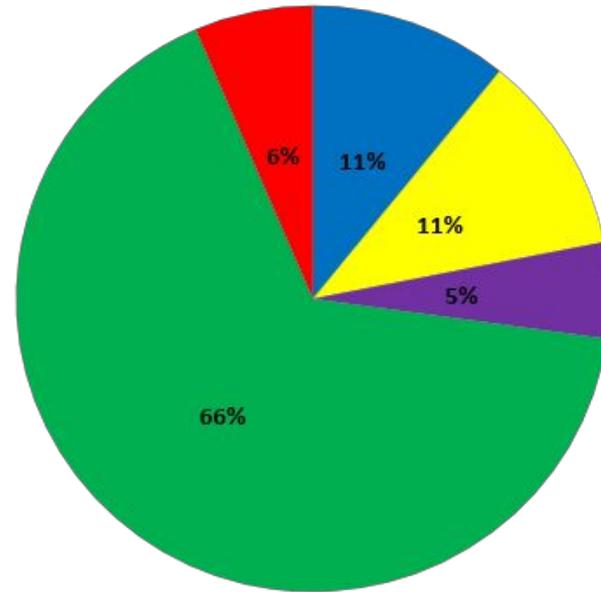
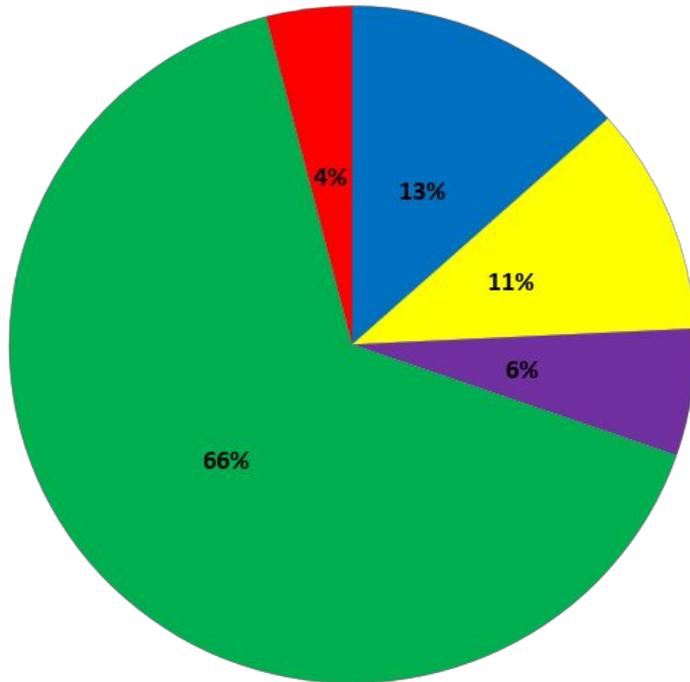
■ Ceased/Undetermined ■ Distress ■ Linked Site ■ (Unassigned) ■ Non-Distress



AKRCC 2017

AKRCC 2018

AKRCC



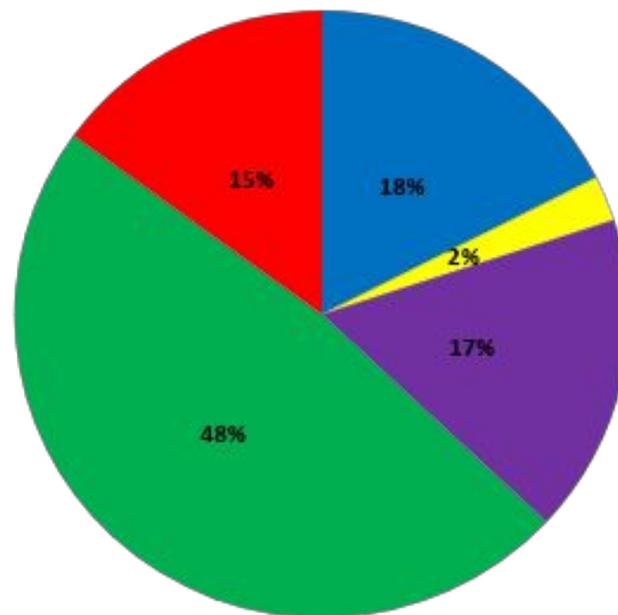
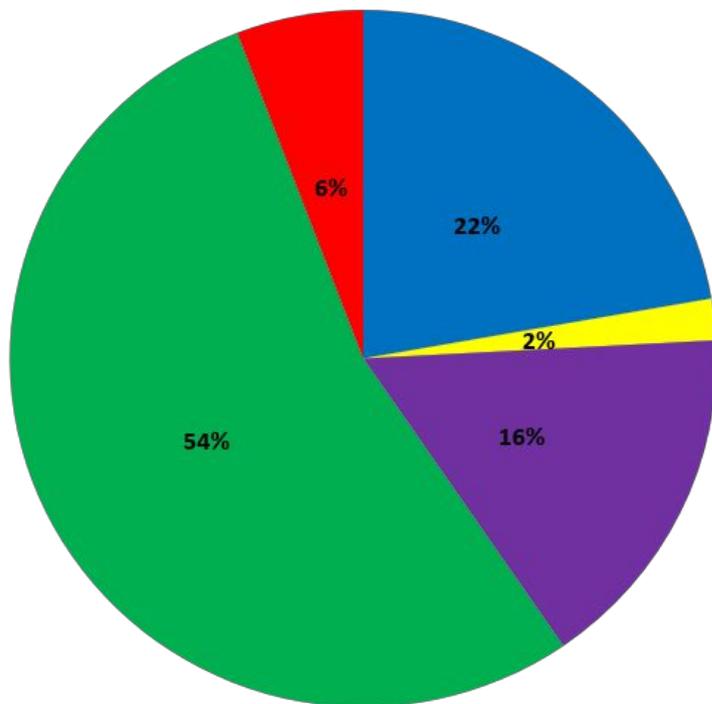
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CGD01 2017

CGD01 2018

CGD01

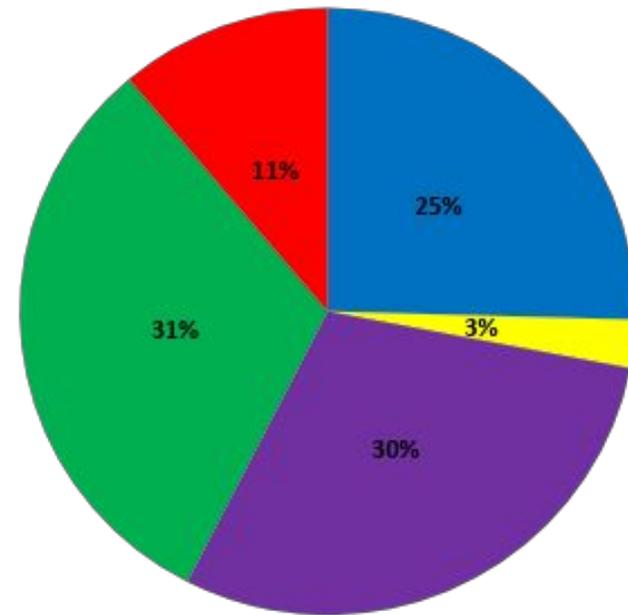
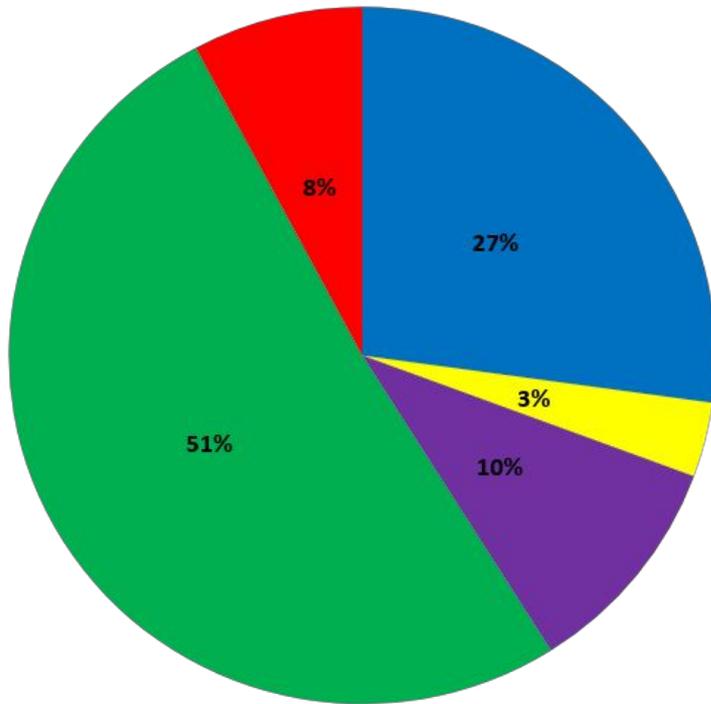


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CGD05 2017

CGD05 2018

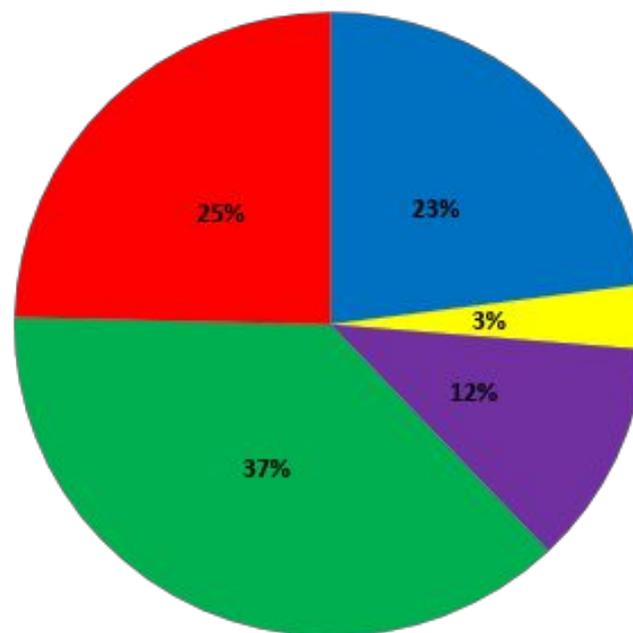
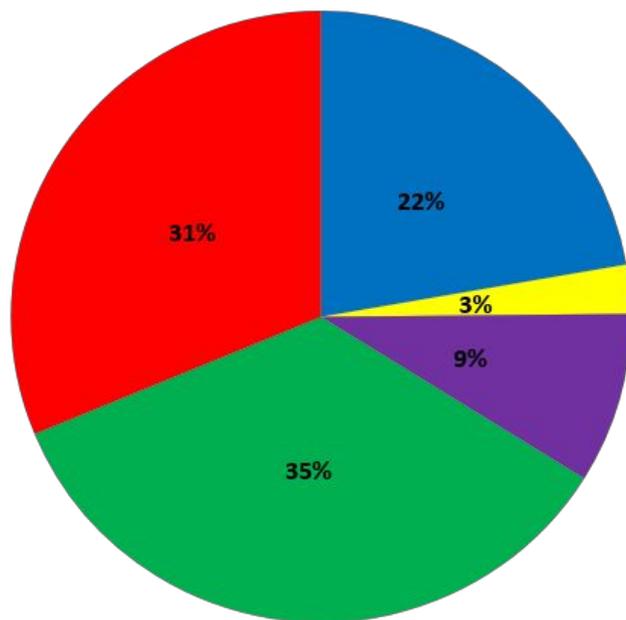


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CGD 2017

CGD 2018

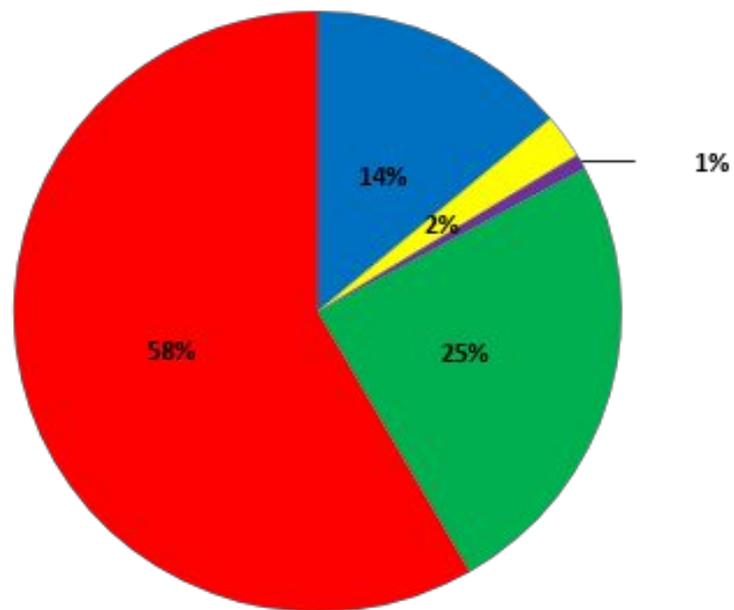
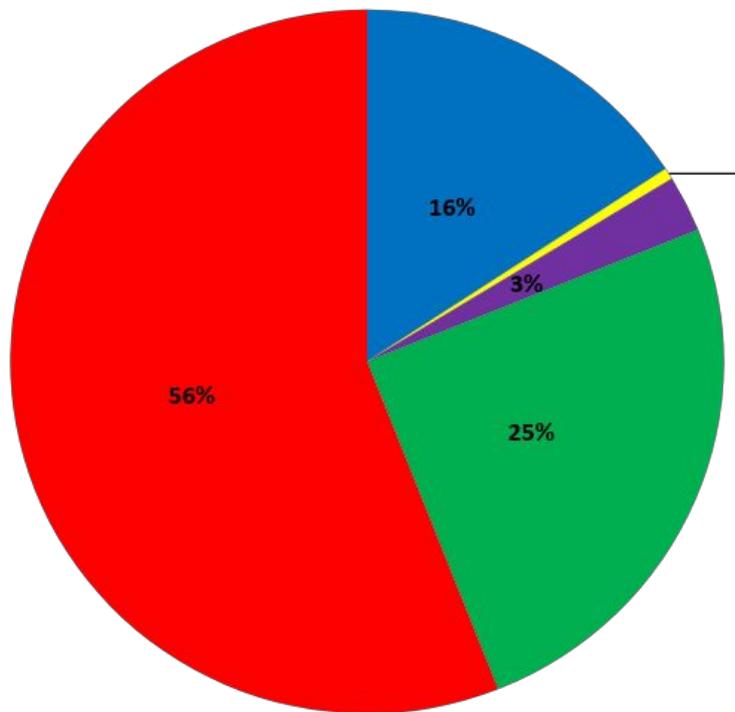


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SANJN 2017

SANJN 2018

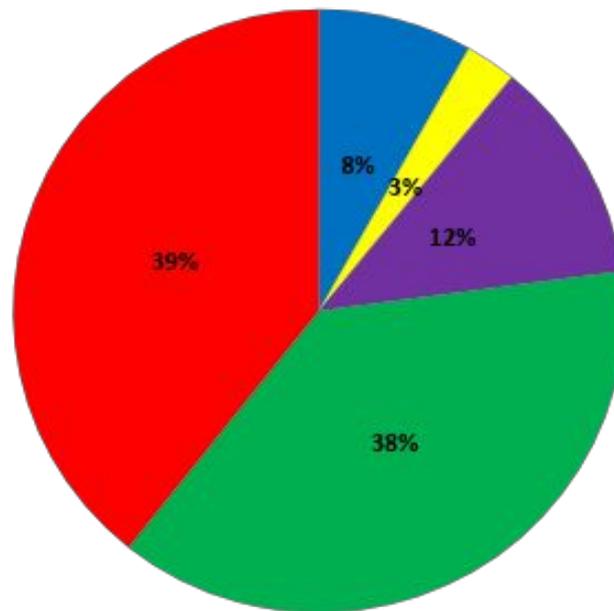
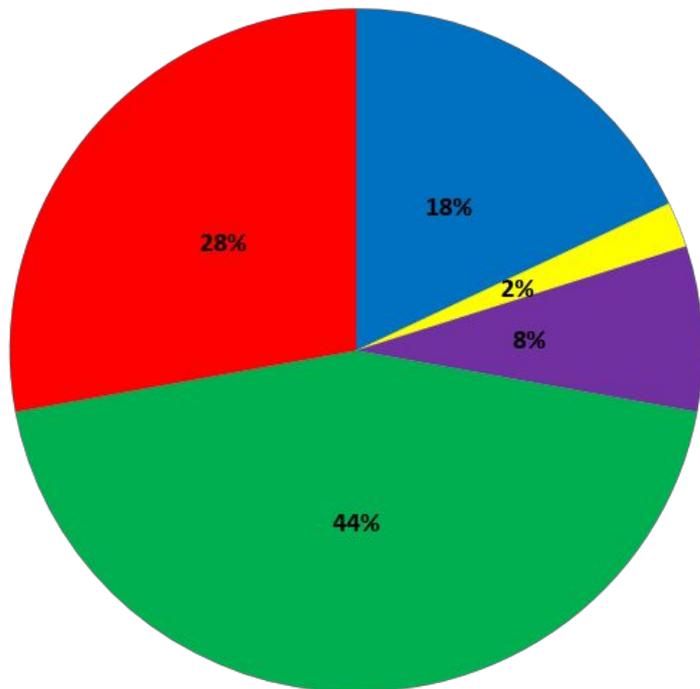


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CGD0820067

CGD08 2018

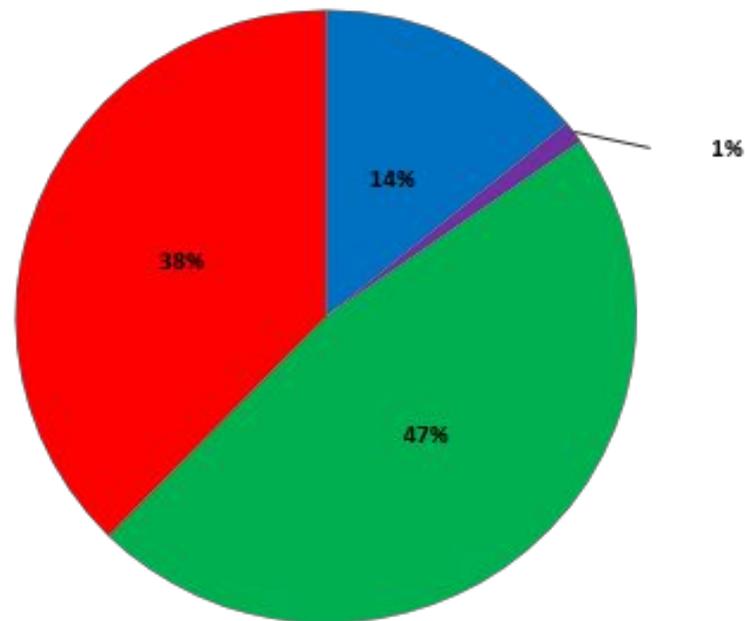
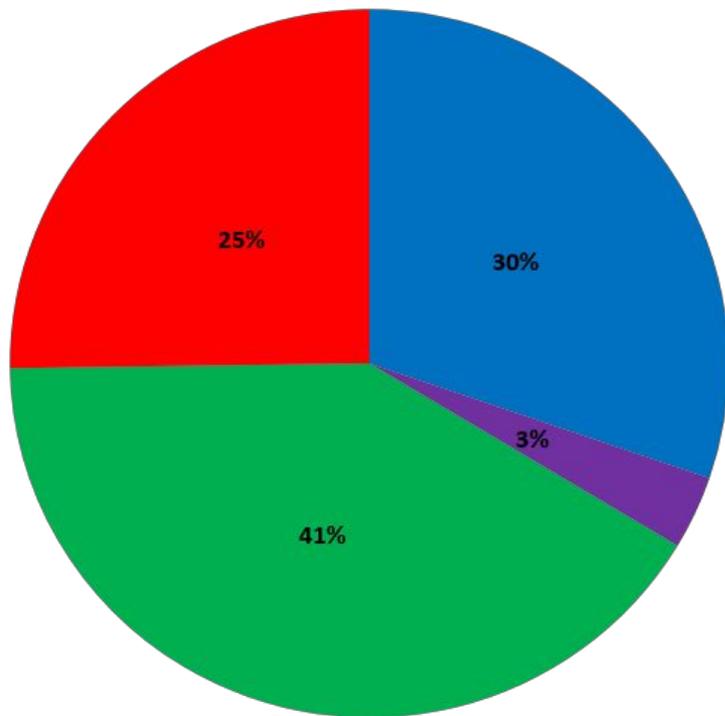


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CGD09 2017

CGD09 2018

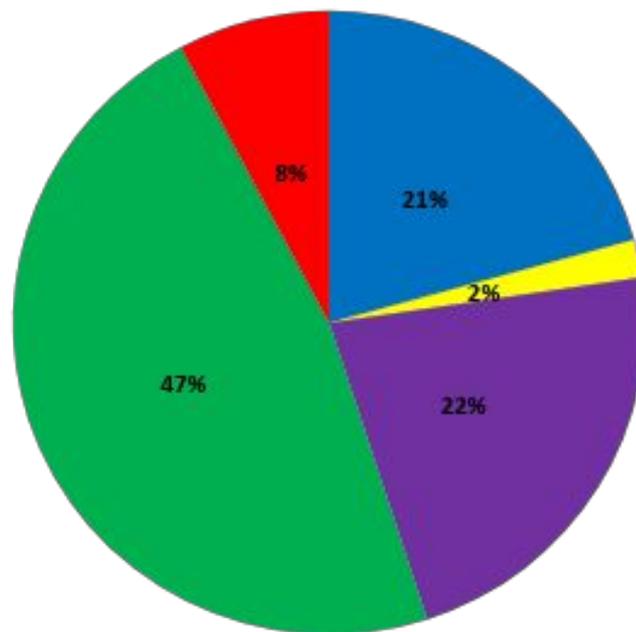
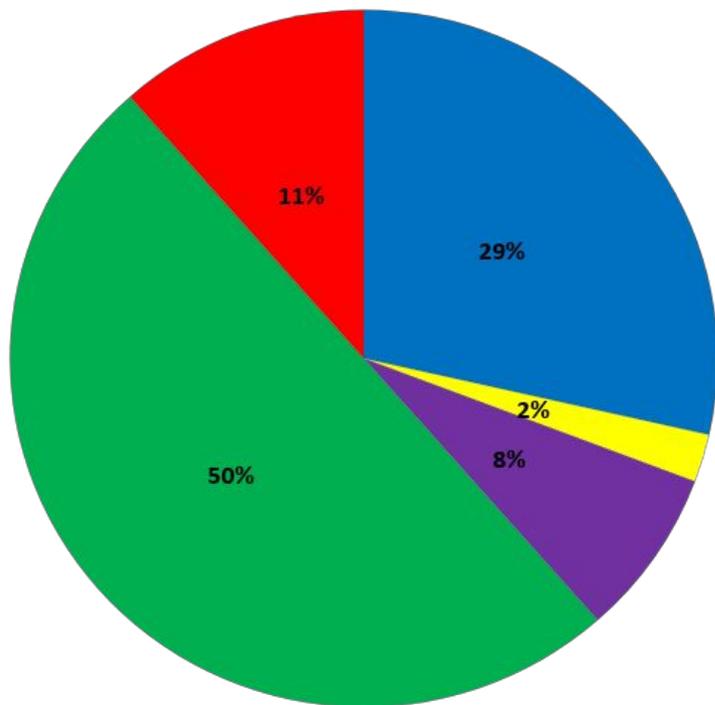


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CGD13 2017

CGD13 2018

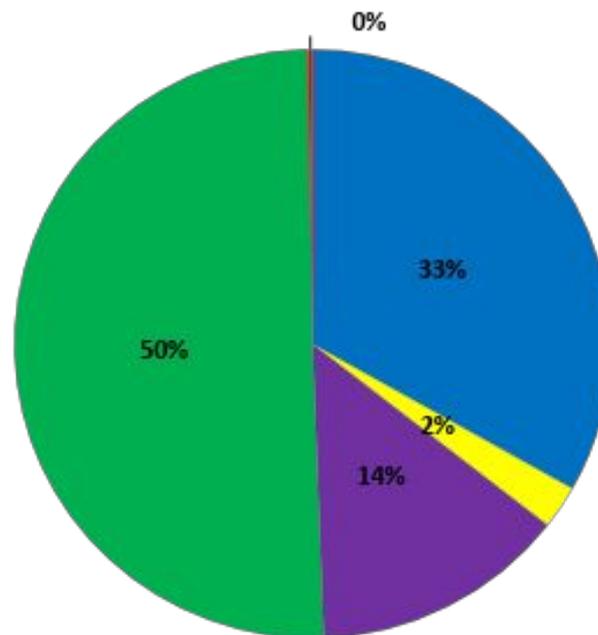
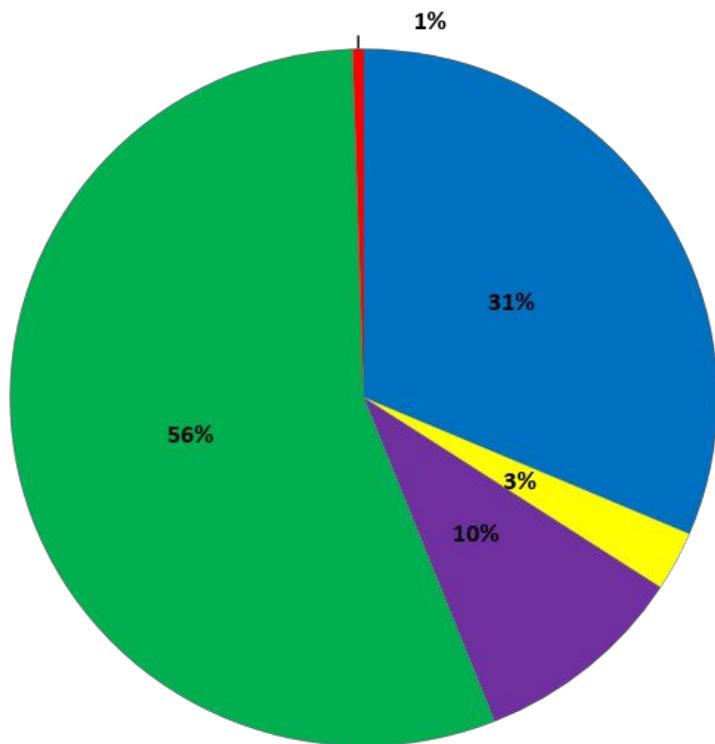


■ Ceased/Undetermined ■ Distress ■ Linked Site ■ (Unassigned) ■ Non-Distress



CGD14 2017

CGD14 2018

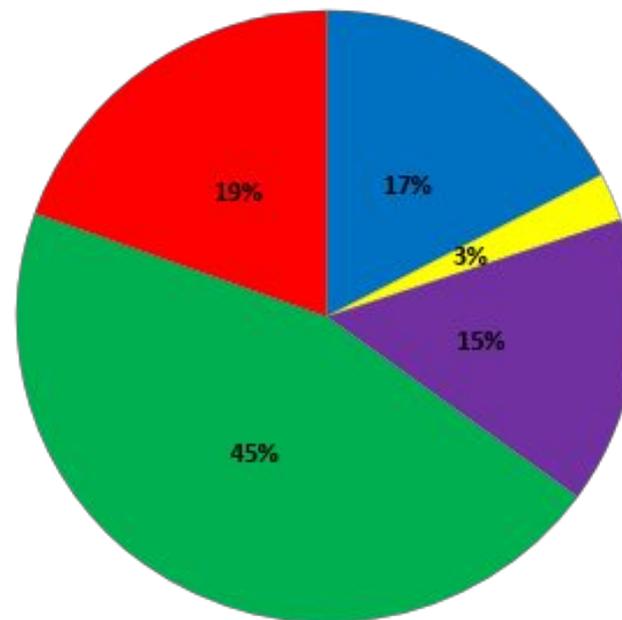
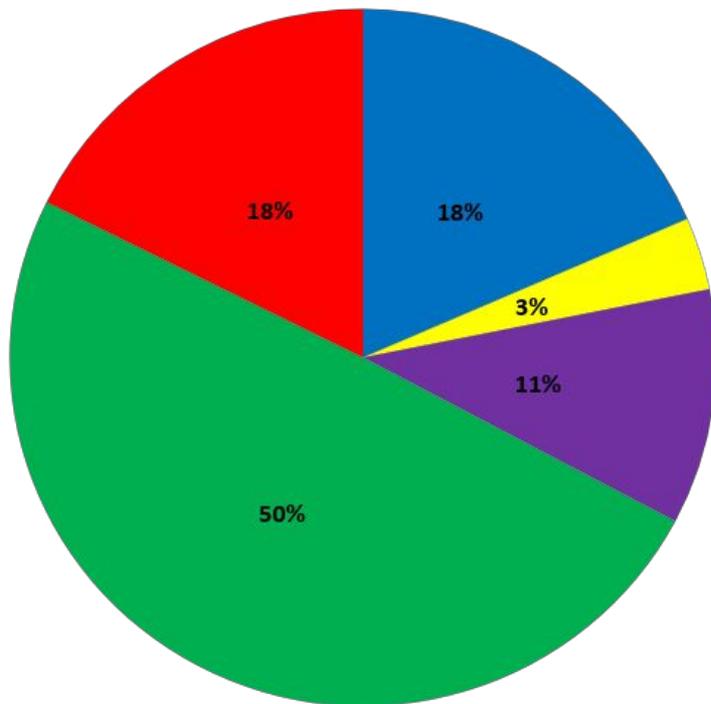


■ Ceased/Undetermined ■ Distress ■ Linked Site ■ (Unassigned) ■ Non-Distress
■ Ceased/Undetermined ■ Distress ■ Linked Site ■ (Unassigned) ■ Non-Distress



CGD17 2017

CGD17 2018

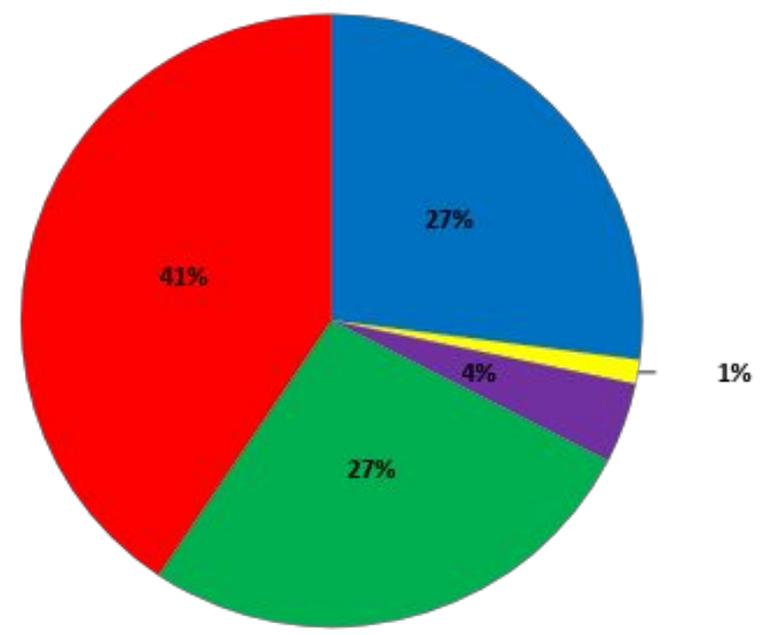
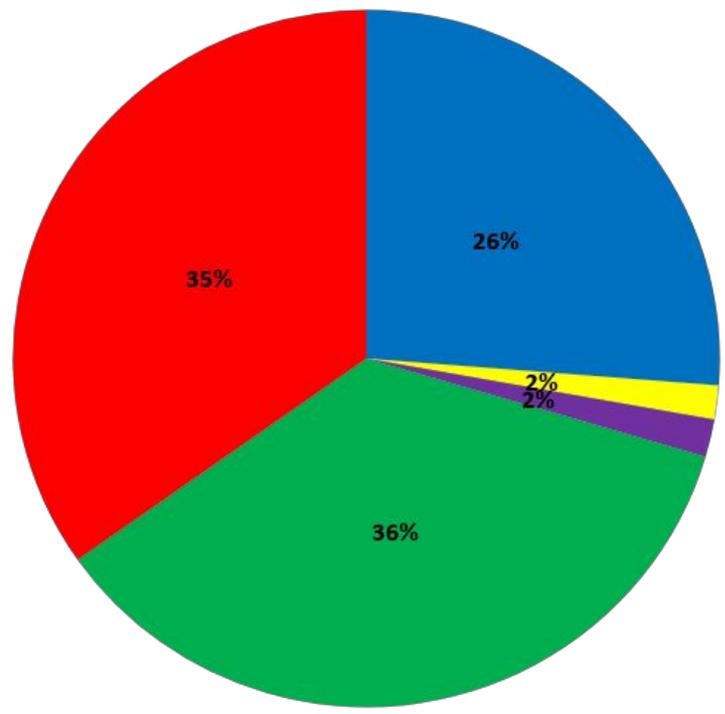


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PACAREA 2017

PACAREA 2018

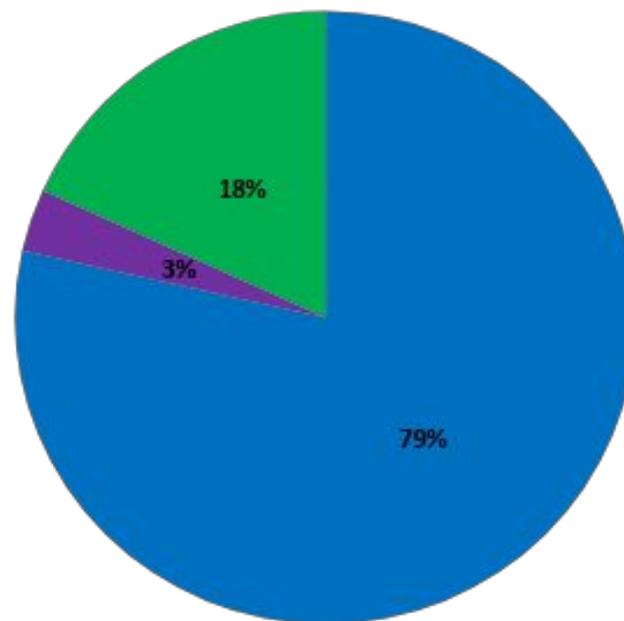
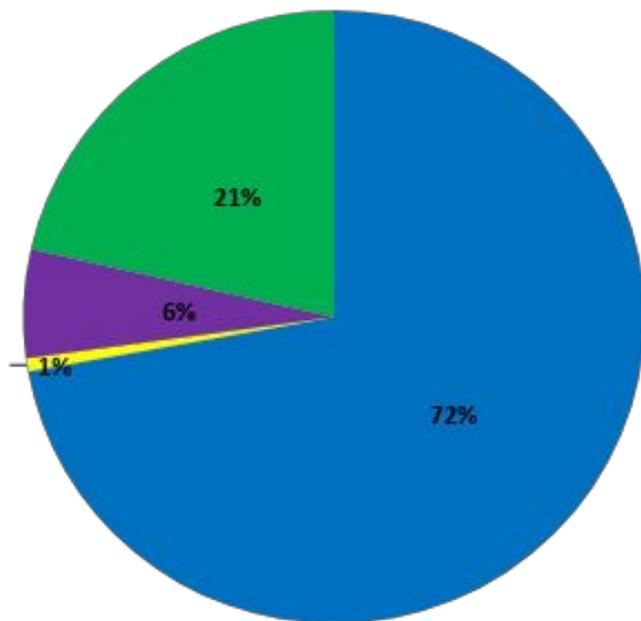


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MARSEC 2017

MARSEC 2018

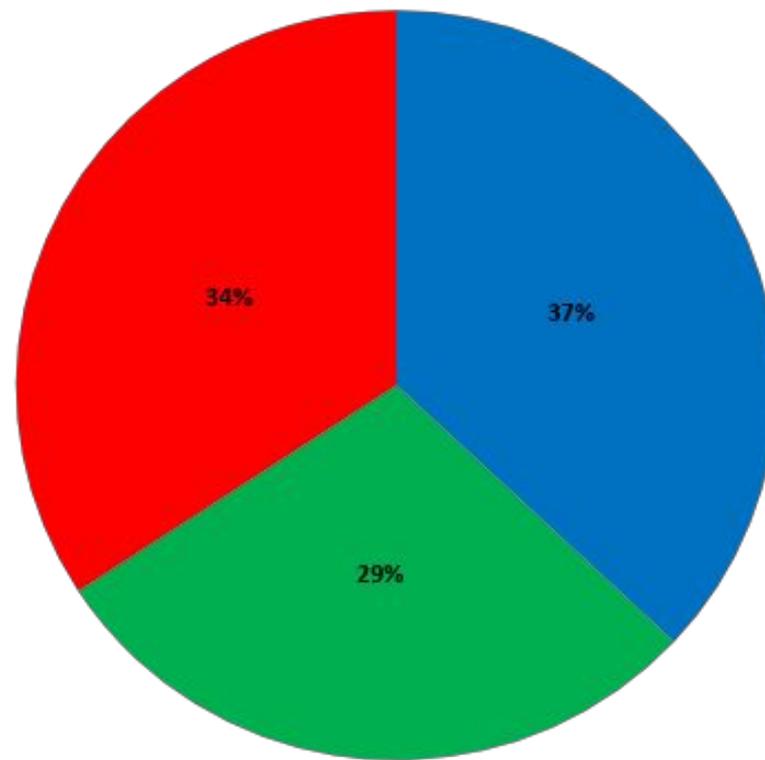
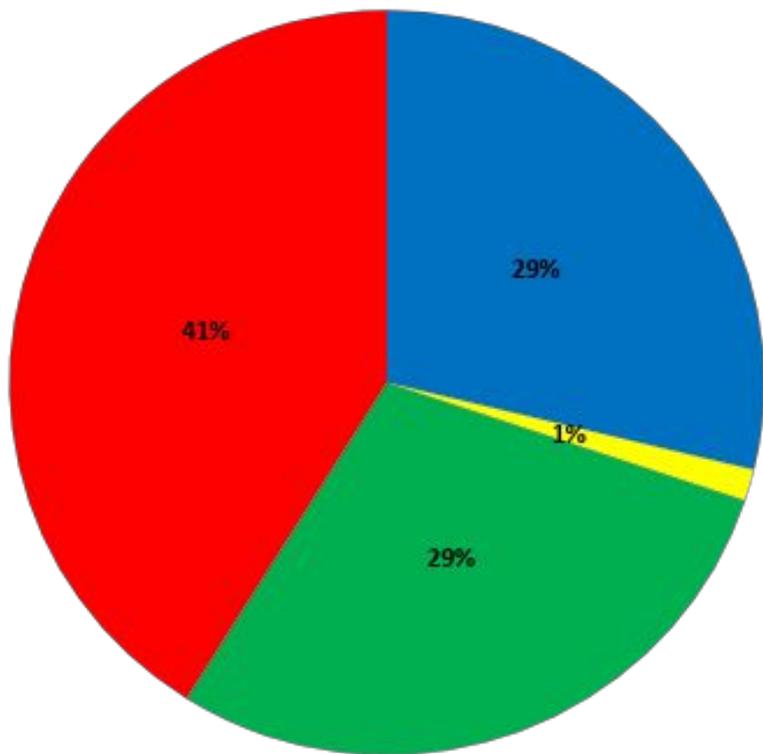


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DOMREPSP 2017

DOMREPSP 2018

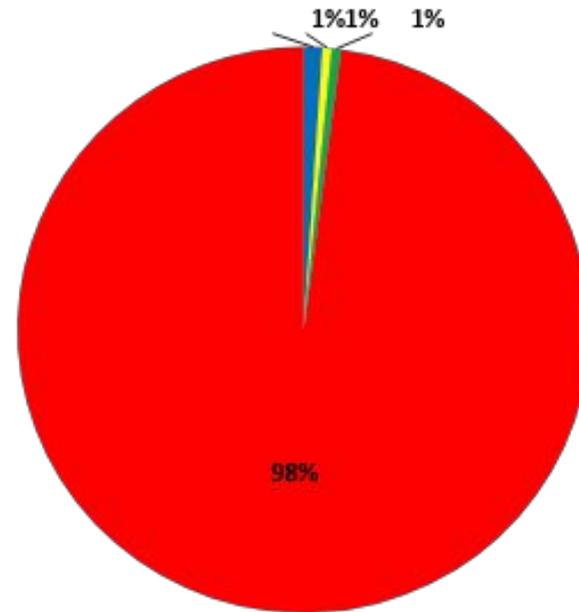
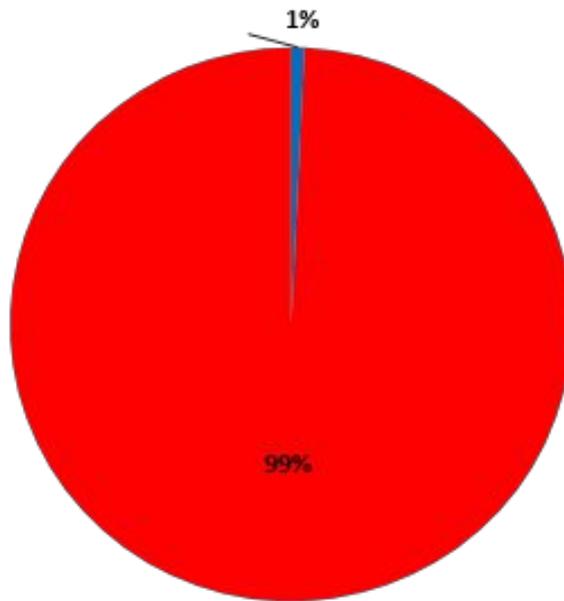


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COCESNA 2017

COCESNA 2018

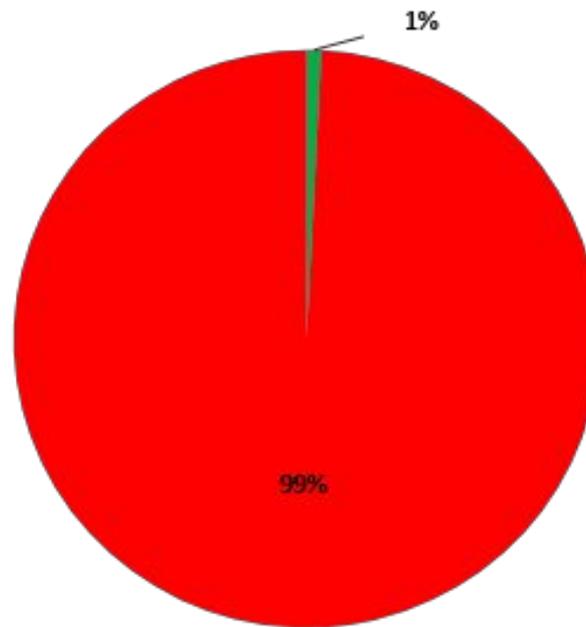
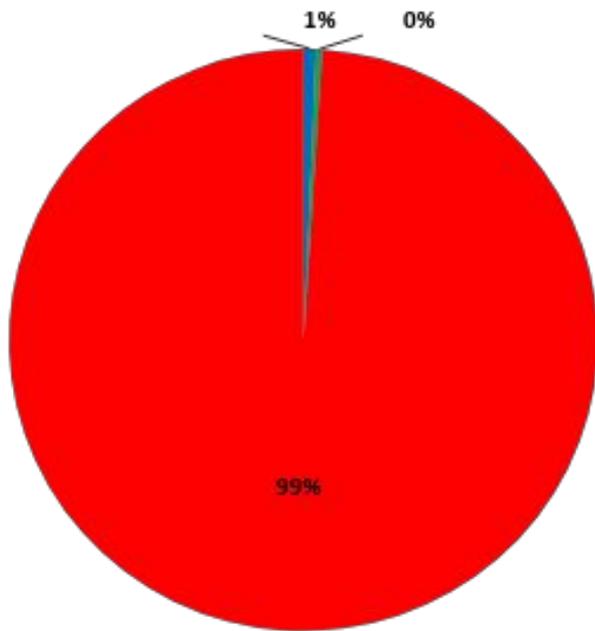


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ECSP 2017

ECSP 2018



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