

COLLECT, ANALYZE & TRAIN

Risk Management at
YMCA Camp Widjiwagan
Ely, MN

WRMIG
WILDERNESS RISK MANAGEMENT CONFERENCE
OCTOBER 14-16, DURHAM MARRIOTT CONVENTION CENTER, DURHAM, NC
WWW.AOLS.EDU/WRMIG

OUTWARD BOUND SCA

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Who we Are

YMCA CAMP WIDJIWAGAN

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Who We Are

YMCA CAMP WIDJIWAGAN

WERNESSEEK MOUNTAIN
CONFERENCE
OCTOBER 14-16
WYOMING
INTER-DIVISION MONTH CAMPOLIA
OUTWARD
BOUND
SCA

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CANOEING



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WHY?
WILDERNESS RISK MANAGEMENT
OCTOBER 14-16, DURHAM, NC
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BACKPACKING



WPRMIG |   
WILDERNESS RISK MANAGEMENT CONFERENCE
OCTOBER 14-16, 2018 | MONTANA STATE UNIVERSITY | BOZEMAN, MONTANA
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WFRM/C
WILDERNESS RISK MANAGEMENT CONFERENCE
OCTOBER 17-19, 2018 | JOURNAL MARRIOTT SUITE | MOUNTAIN CENTER, DURNING, MO | WWW.WFRM/C
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WRMRC



WILDERNESS RISK MANAGEMENT

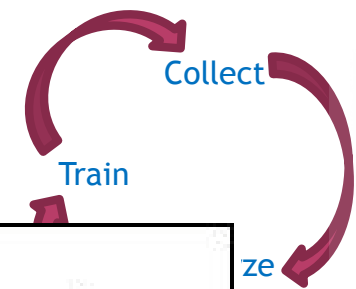
OCTOBER 14-16, DURHAM MARSHALL CONVENTION CENTER, DURHAM

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WHERE DO WE TRAVEL?



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**IDAHO, MONTANA
AND WYOMING**

SCALE OF MILES
0 20 40 60 80 100 120 140

This is a topographical map of Idaho, Montana, and Wyoming. It shows the state boundaries and major cities, towns, and villages. The map also displays rivers, lakes, and mountain ranges. Three areas are circled in red: one in the south-central part of Idaho (near the Snake River), one in the central part of Montana (near the Yellowstone River), and one in the north-central part of Wyoming (near the Snake River).



200 miles

Your Free Alaska Travel Map from **Alaska.org** Anchorage Alaska

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WILDERNESS RISK
GENERAL
ADVISORY

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RUSSIA

YUKON TERRITORY

ALASKA

CANADA

USA

QUEEN CHARLOTTE ISLANDS

ARCTIC OCEAN

BEAUFORT SEA

CHUKCHI SEA

BERING STRAIT

NORTON SOUND

BERING SEA

BRISTOL BAY

PACIFIC OCEAN

GULF OF ALASKA

YAKUTAT BAY

PRINCE WILLIAM SOUND

COOK INLET

BROOKS RANGE

ARCTIC CIRCLE

GATES OF THE ARCTIC NATIONAL PARK

ARCTIC NATIONAL WILDLIFE REFUGE

YUKON FLATS NATIONAL WILDLIFE REFUGE

KOBUK VALLEY NATIONAL PARK

INNOKO NATIONAL WILDLIFE REFUGE

YUKON DELTA NATIONAL WILDLIFE REFUGE

NUNIVAK ISLAND

WOOD-TIXCHIK STATE PARK

LAKE CLARK NATIONAL PARK

KATMAI NATIONAL PARK

KODIAK NATIONAL WILDLIFE REFUGE

ALASKA PENINSULA NATIONAL WILDLIFE REFUGE

Gambell
Savoonga

Nome
Council
Pilgrim Hot Springs
Teller

Wales
Shishmaref

Kotzebue

Point Hope

Anaktuvuk Pass

Prudhoe Bay
Deadhorse

Bettles
Coldfoot
Wiseman

Circle

Fairbanks

Manly Hot Springs

Denali Park
Denali NP

Talkeetna

Anchorage

Cooper Landing

Soldotna

Homer

King Salmon

Kodiak

Chena Hot Springs

Delta Junction

Chicken

Tok

Paxson

Glennallen

Valdez

Cordova

Girdwood

Whittier

Seward

Eagle

Dawson City

Beaver Creek

Whitehorse

Skagway

Haines

Haines Jct.

Yakutat

Gustavus

Juneau

Sitka

Petersburg

Wrangell

Ketchikan

Motlatka

Queen Charlotte Islands

MT. MCKINLEY

Wrangell-St. Elias National Park

Yukon-Charley National Preserve

Kenai Fjords National Park

Glacier Bay National Park

Misty Fjords National Monument

Wrangell

Ketchikan

Motlatka

Queen Charlotte Islands

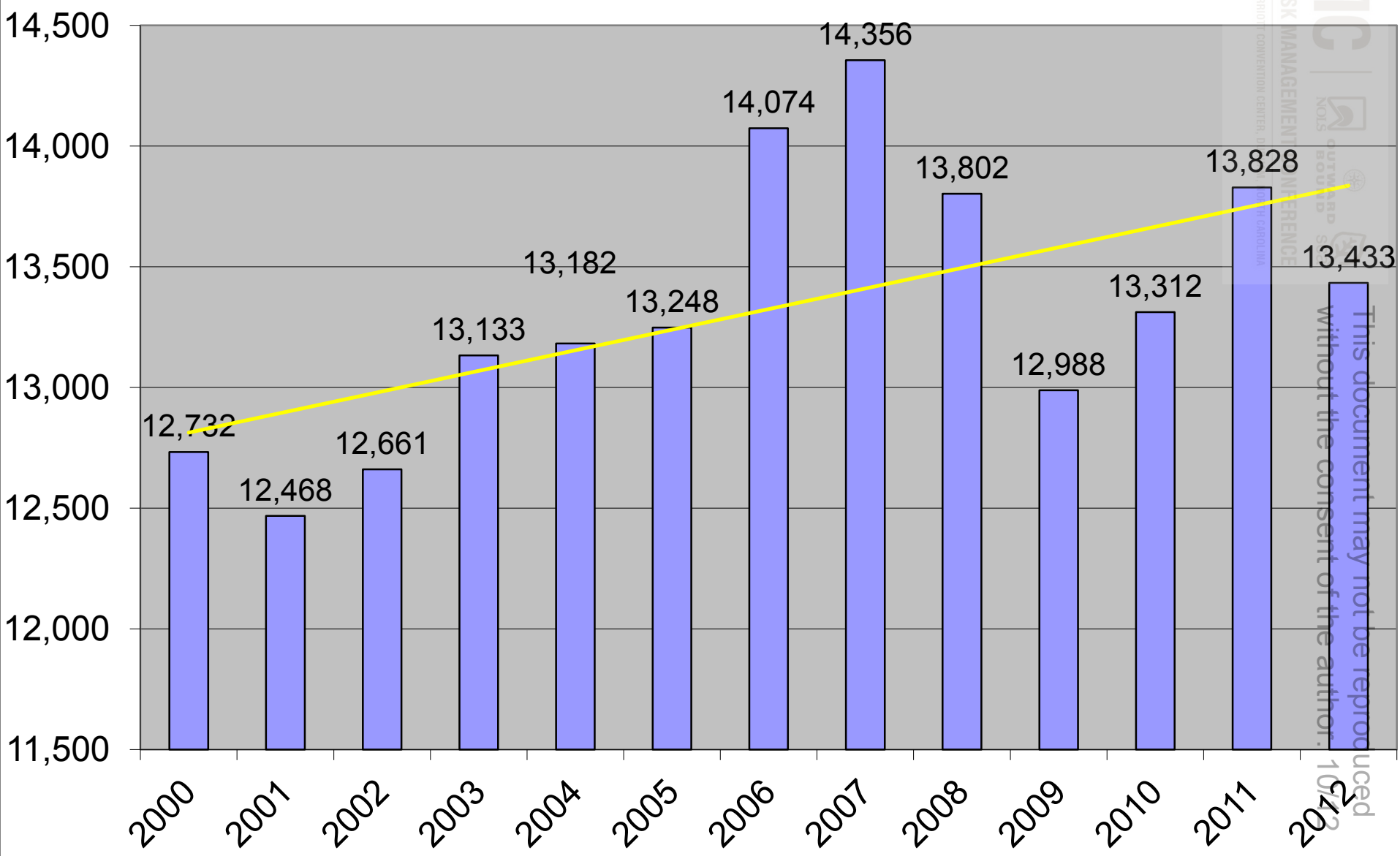
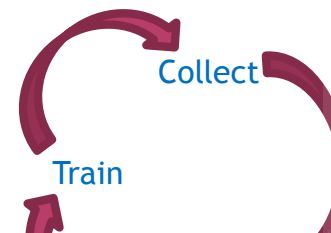
Wrangell

Ketchikan

Motlatka



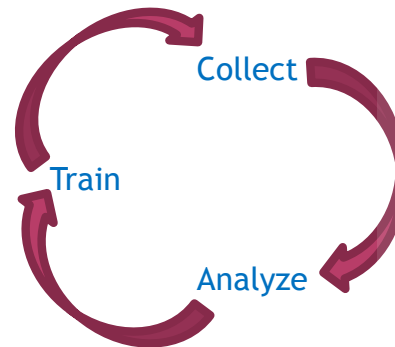
TOTAL CAMPER DAYS



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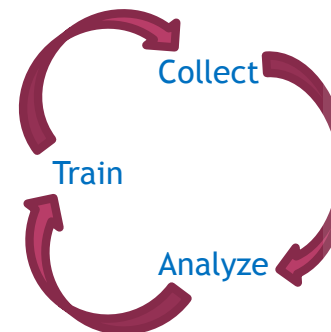
RISK MANAGEMENT & STAFF TRAINING



- First Aid & Lifesaving
- 1980 - Development of specific curriculum
- 1992 - Introduction of WFR
- 1999 - Development of the incident database
- 2000 to today - Continued development of risk management philosophy & practice



COLLECTING THE DATA



Entry Number Press the button first, then choose a new number. Record the number on the written form

Trip Treated By Patient Name Staff ID:

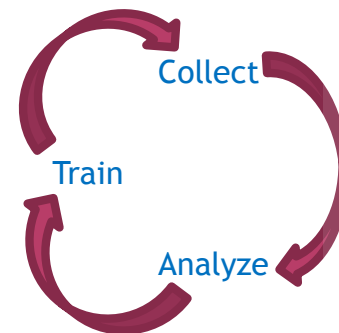
Date: Trip Day: Trip Length:

Narrative

- Blood Involved
- Mucous Membrane Contact
- Gloves Used
- Incident Report Filled Out



COLLECTING THE DATA



General Type of Incident (Choose one)



Injury



Illness



Near Miss



Fatality



Behavioral



Damage/Loss

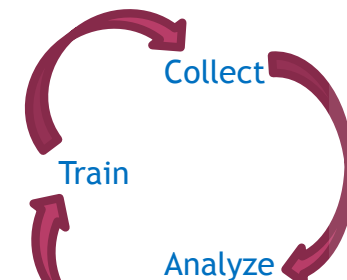


Other - General

Other Description - General:



COLLECTING THE DATA



Specific Type of Injury or Illness (Choose all that apply - generally only one)

Soft Tissue

- Abrasion
- Laceration
- Avulsion
- Amputation
- Puncture
- Impaled Object
- Blister
- Burn
- Frostbite
- Rash
- Bite
- Infection
- Other - ST

Cardiovascular

- Arrest - CV
- Chest Pain - CV
- Other - CV

Musculoskeletal

- Strain/Sprain
- Dislocation
- Fracture
- Cramp
- Tendonitis
- Other - Musculo

Water Related

- Drowning
- Near Drowning
- Immersion Foot
- Swamp - White Water
- Swamp - Flat Water
- Other - Water Related

Allergy

- Allergy - Localized
- Allergy - Systemic

Thermoregulation

- Hypothermia - Mild
- Hypothermia - Severe
- Heat Illness - Mild
- Heat Illness - Severe
- Fever - Non-specific
- Other - Thermoregul

Neurologic

- Head Injury - with LOC
- Head Injury - no LOC
- Spine Injury - no cord
- Spine Injury - with cord
- Headache
- Dizziness
- Psychological/Emotional
- Seizure
- Intoxication/Poisoning
- Other - Neurologic

Respiratory

- SOB - Respiratory
- Arrest - Respiratory
- URI - Respiratory
- Pneumonia - Respiratory
- Asthma - Respiratory
- Choking - Respiratory
- Other - Respiratory

Genital-Urinary

- Bladder Infection - GU
- Kidney Infection - GU
- Vaginal Infection - GU
- Pregnancy Problem - GU
- PID - GU
- Other - GU

Altitude

- Altitude Illness - Mild
- Altitude Illness - Severe

Eye, Ear, Nose, Mouth

- Injury - Eye
- Infection - Eye
- Other - Eye

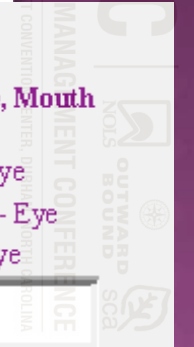
- Ache - Ear
- Infection - Ear
- Other - Ear

- Bleed - Nose
- Sinus - Nose
- Other - Nose

- Mouth/Tooth

Abdomen

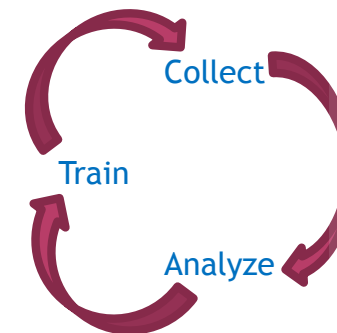
- Pain - Abd
- Constipation - Abd
- Diarrhea - Abd
- Nausea/Vomiting - Abd
- Other - Abdominal



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COLLECTING THE DATA

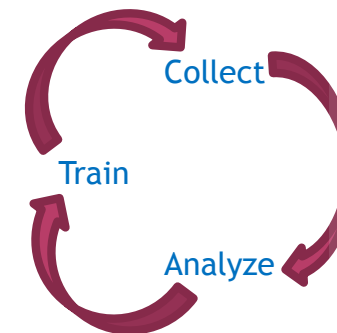


Anatomic Location of Injury (Choose all that apply - generally only one)

- | | | | | |
|--------------------------------|----------------------------------|------------------------------------|-------------------------------------|---------------------------------------|
| <input type="checkbox"/> Head | <input type="checkbox"/> Face | <input type="checkbox"/> Eye | <input type="checkbox"/> Ear | <input type="checkbox"/> Nose |
| <input type="checkbox"/> Mouth | <input type="checkbox"/> Throat | <input type="checkbox"/> Neck | <input type="checkbox"/> Shoulder | <input type="checkbox"/> Upper Arm |
| <input type="checkbox"/> Elbow | <input type="checkbox"/> Forearm | <input type="checkbox"/> Wrist | <input type="checkbox"/> Hand | <input type="checkbox"/> Finger/Thumb |
| <input type="checkbox"/> Chest | <input type="checkbox"/> Abdomen | <input type="checkbox"/> Lower Bac | <input type="checkbox"/> Upper Back | <input type="checkbox"/> Pelvis |
| <input type="checkbox"/> GU | <input type="checkbox"/> Hip | <input type="checkbox"/> Thigh | <input type="checkbox"/> Knee | <input type="checkbox"/> Leg |
| <input type="checkbox"/> Ankle | <input type="checkbox"/> Foot | <input type="checkbox"/> Toe | | |



COLLECTING THE DATA



Environmental Factors (Choose all that apply)

- | | | | | |
|--|--|--|--|---|
| <input type="checkbox"/> Altitude | <input checked="" type="checkbox"/> Cold | <input type="checkbox"/> Darkness | <input type="checkbox"/> Falling Objects
<input type="text"/> | <input type="checkbox"/> Fall on Object
<input type="text"/> |
| <input type="checkbox"/> Animal/Insect
<input type="text"/> | <input type="checkbox"/> Heat | <input type="checkbox"/> Immersion/Sub | <input type="checkbox"/> Lightning | <input type="checkbox"/> Plant Toxicity |
| <input type="checkbox"/> Poor Visibility | <input type="checkbox"/> Precipitation
<input type="text"/> | <input type="checkbox"/> Sun Exposure | <input type="checkbox"/> Surface Condition
<input type="text"/> | <input checked="" type="checkbox"/> Wind |
| <input type="checkbox"/> Other <input type="text"/> | | | | |

Condition of Victim at Time of Incident (Choose all that apply)

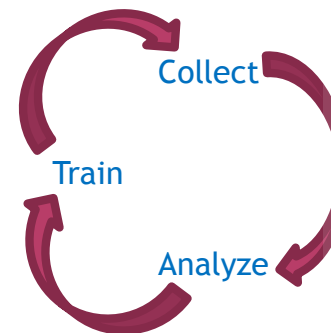
- | | | | | |
|--------------------------------------|---|-------------------------------------|---------------------------------------|---|
| <input type="checkbox"/> Dehydration | <input type="checkbox"/> Emotional State | <input type="checkbox"/> Exhaustion | <input type="checkbox"/> Intoxication | <input type="checkbox"/> Pre-existing Medical Condition |
| <input type="checkbox"/> Nutrition | Time Since Last Meal:(min) <input type="text"/> | | | <input type="checkbox"/> Psychological |
| <input type="checkbox"/> Hygiene | <input type="checkbox"/> Other <input type="text"/> | | | |

Other Factors at Time of Incident (Choose all that apply)

- | | | | |
|---|--|--|--|
| <input type="checkbox"/> Exceeded Ability | <input type="checkbox"/> Did Not Follow Instructions | <input checked="" type="checkbox"/> Inexperience | <input type="checkbox"/> Improper Screening |
| <input type="checkbox"/> Improper Supervision | <input type="checkbox"/> Missing/Lost | <input type="checkbox"/> Misbehavior | <input checked="" type="checkbox"/> Other <input type="text" value="exceedingly tipsy"/> |



COLLECTING THE DATA



Activity at Time of Incident (Choose one)

Canoeing

- Paddling Flatwater
- Paddling Whitewater
- Portaging
- Swimming
- Loading/Unloading
- Cooking
- Campsite
- Other

Backpacking

- Hiking with Pack
- Hiking without Pack
- River Crossing
- Swimming
- Cooking
- Campsite
- Other

In Camp

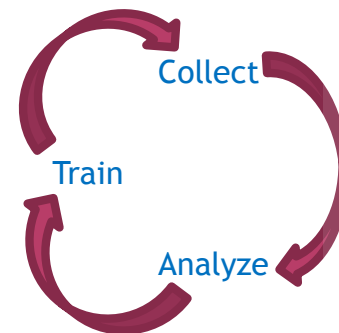
- Game
- Paddle/Hike Out
- Demo
- Initiatives/Ropes Course
- Other

In Transit

- Urban Activity
- Driving
- Loading/Unloading
- Other
- Skiing/Snowshoeing



COLLECTING THE DATA



Where/By Whom Was Victim Treated
(Choose the highest level of treatment)

- Staff
- Health Professional
- ER or Clinic
- In Hospital - if admitted
- Other

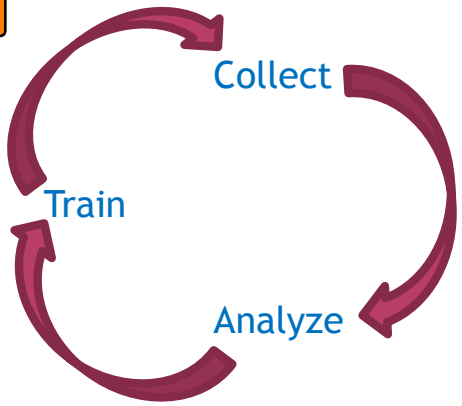
Staff Present At Time of Incident

Did Victim Leave the Trip

Did Victim Return to the Trail Date Returned:

Damage or Loss:

- Vehicle
- Equipment
- Property

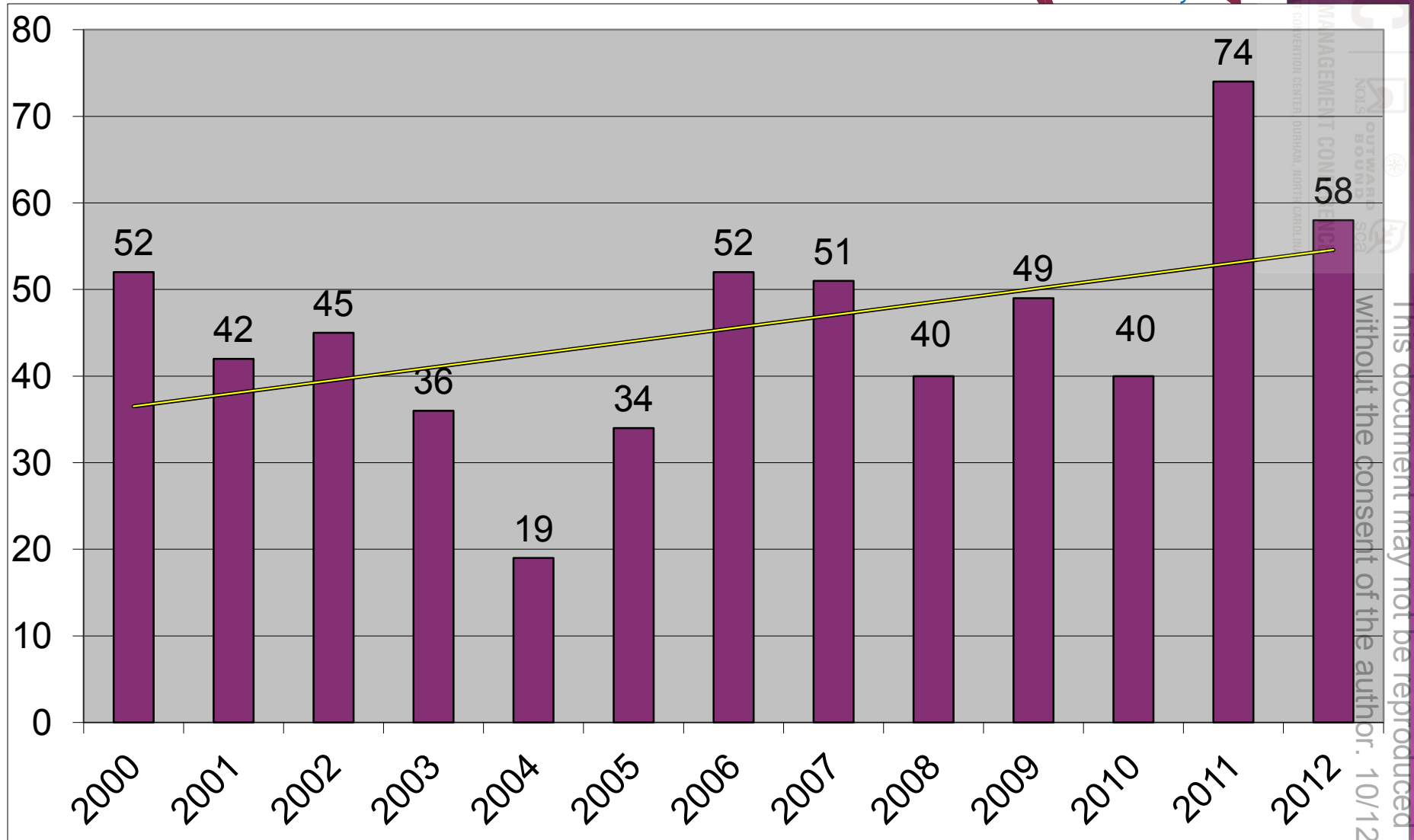
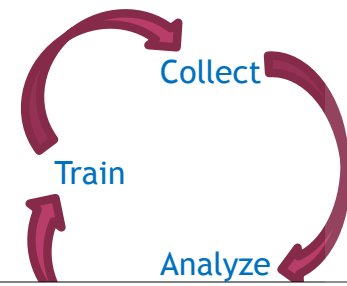


NOW ON TO OUR DATA

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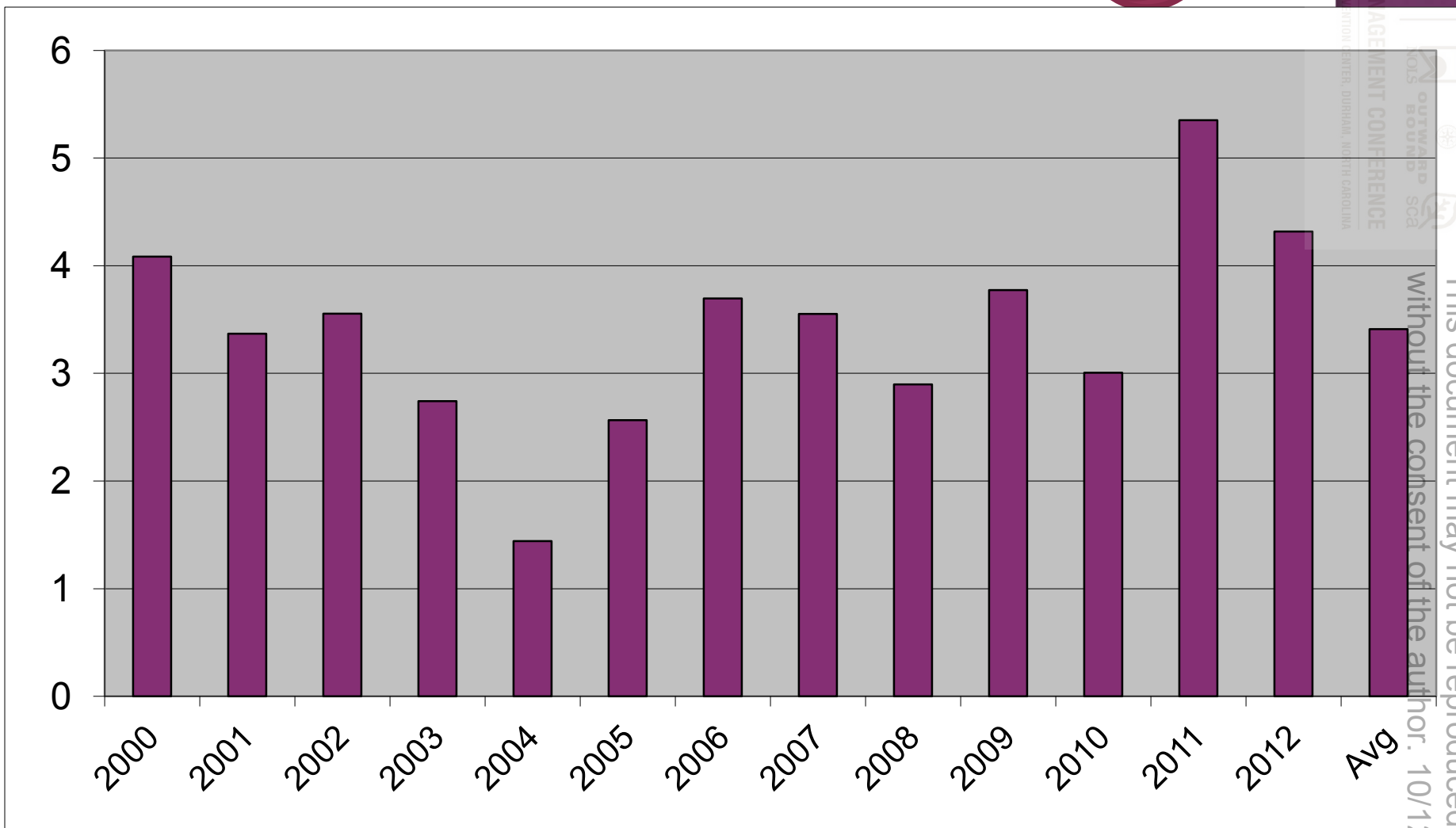
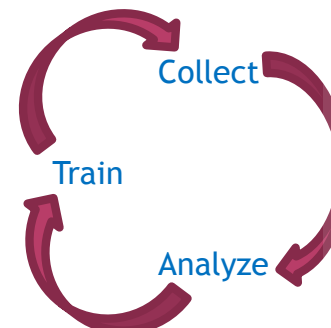
DATA ANALYSIS - TOTAL INCIDENTS



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INCIDENTS PER 1000 CAMPER DAYS



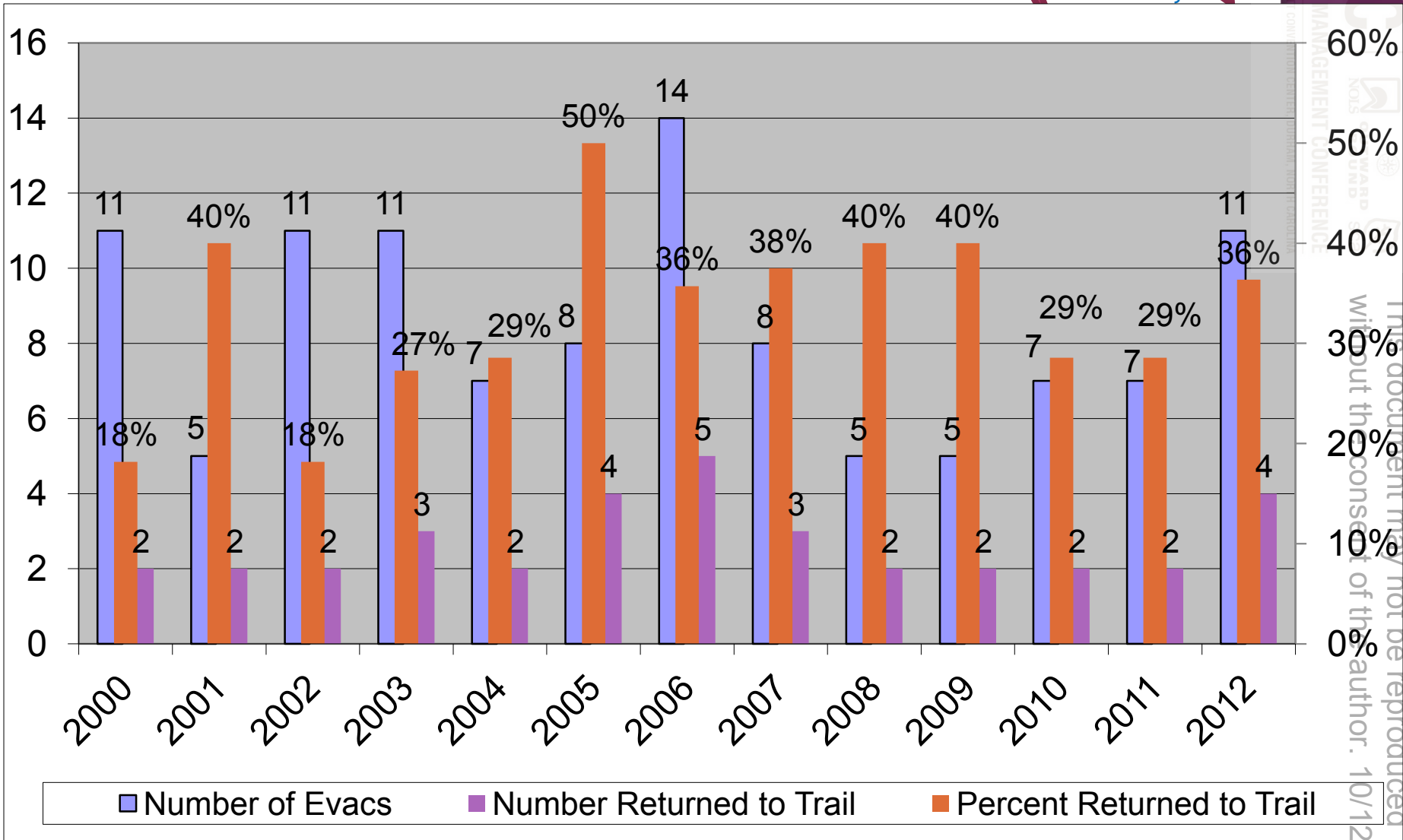
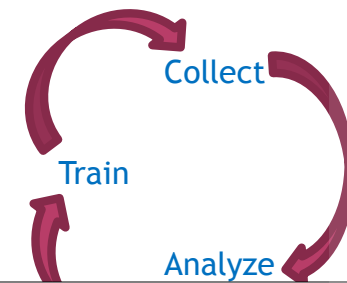
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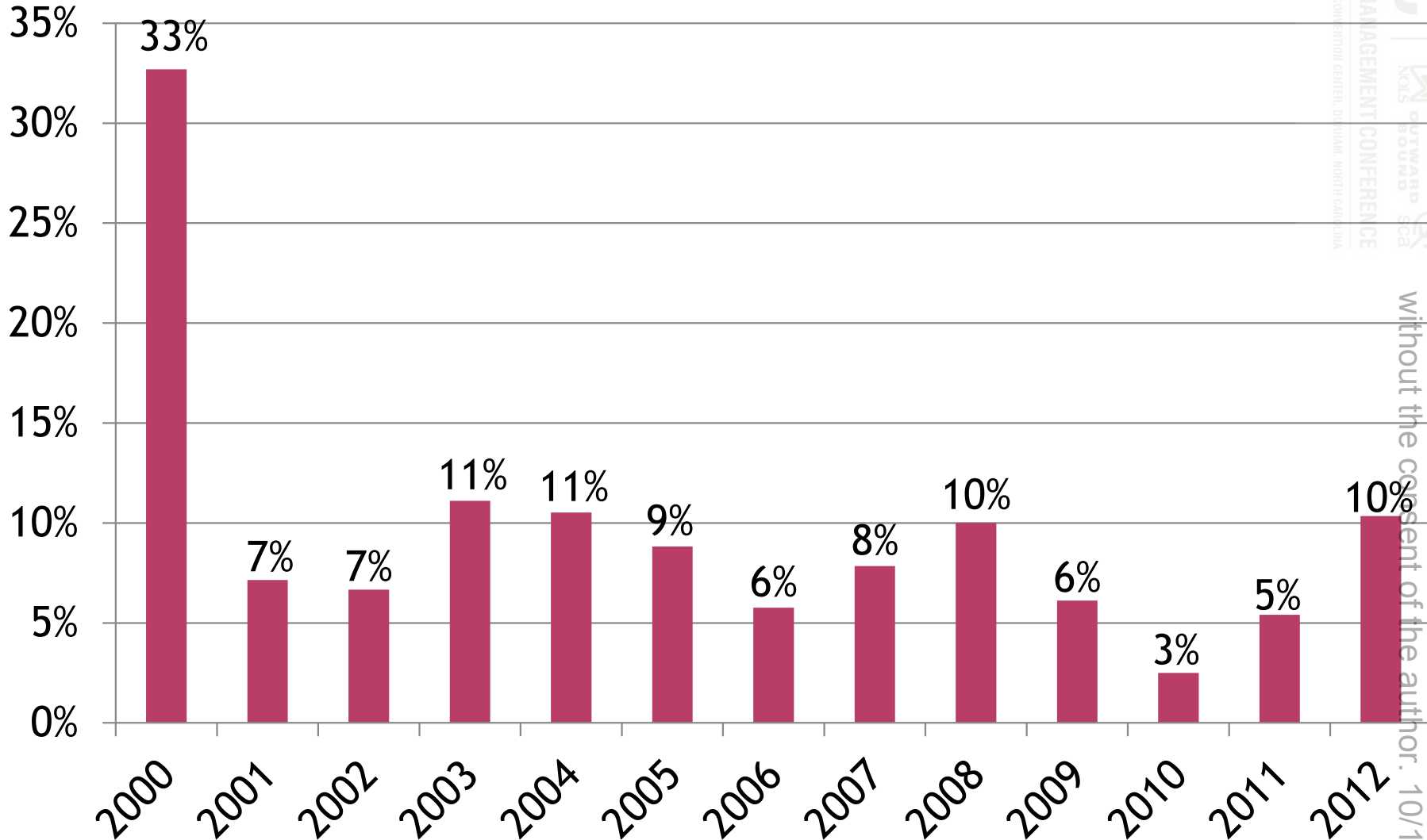
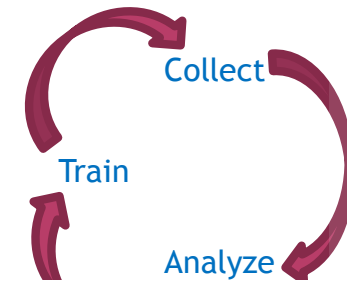
EVACUATIONS



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NEAR MISS INCIDENTS



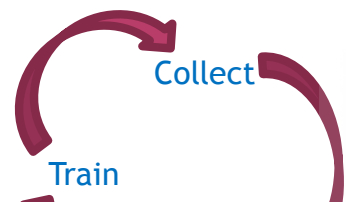
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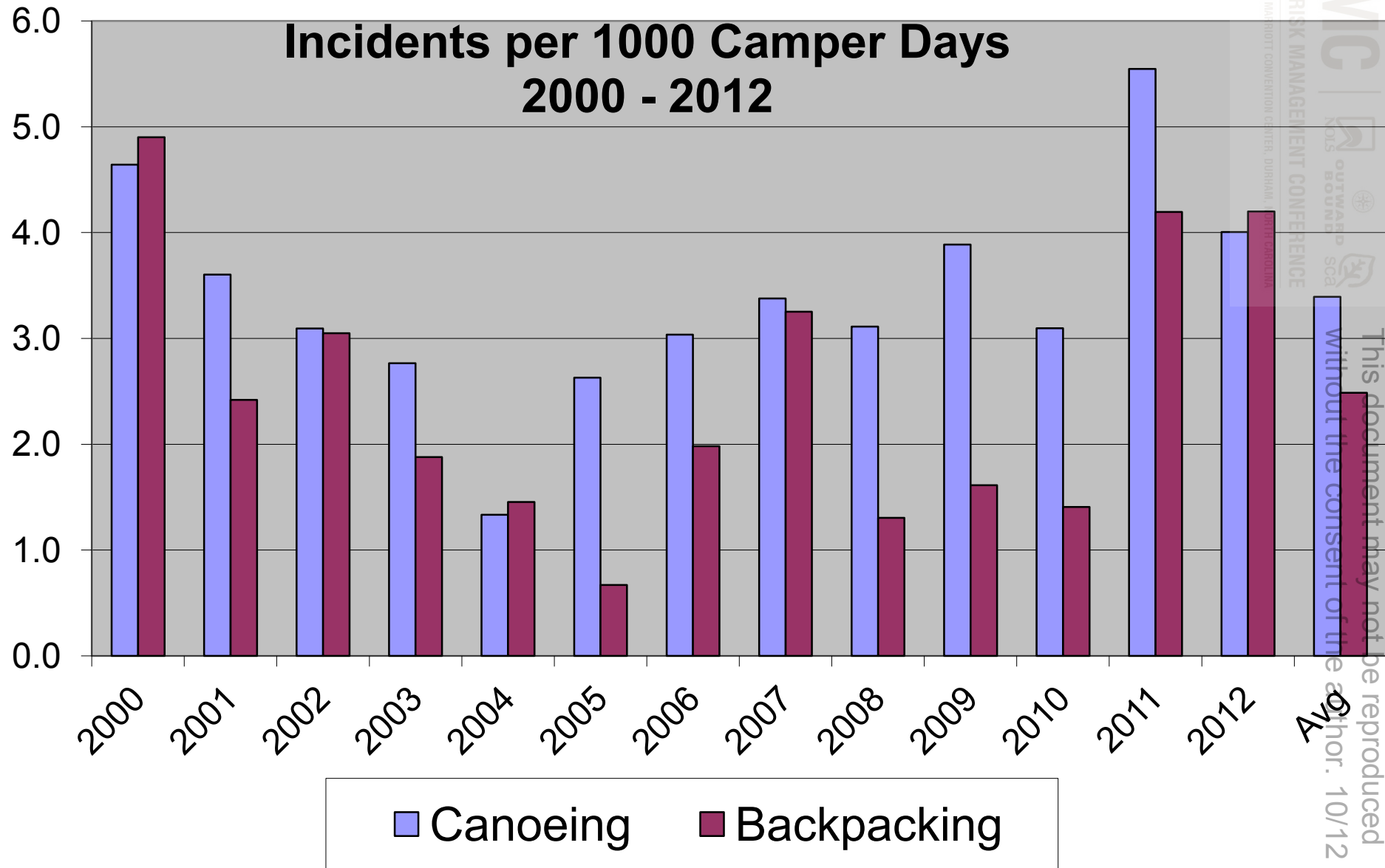


CANOEING VS. BACKPACKING



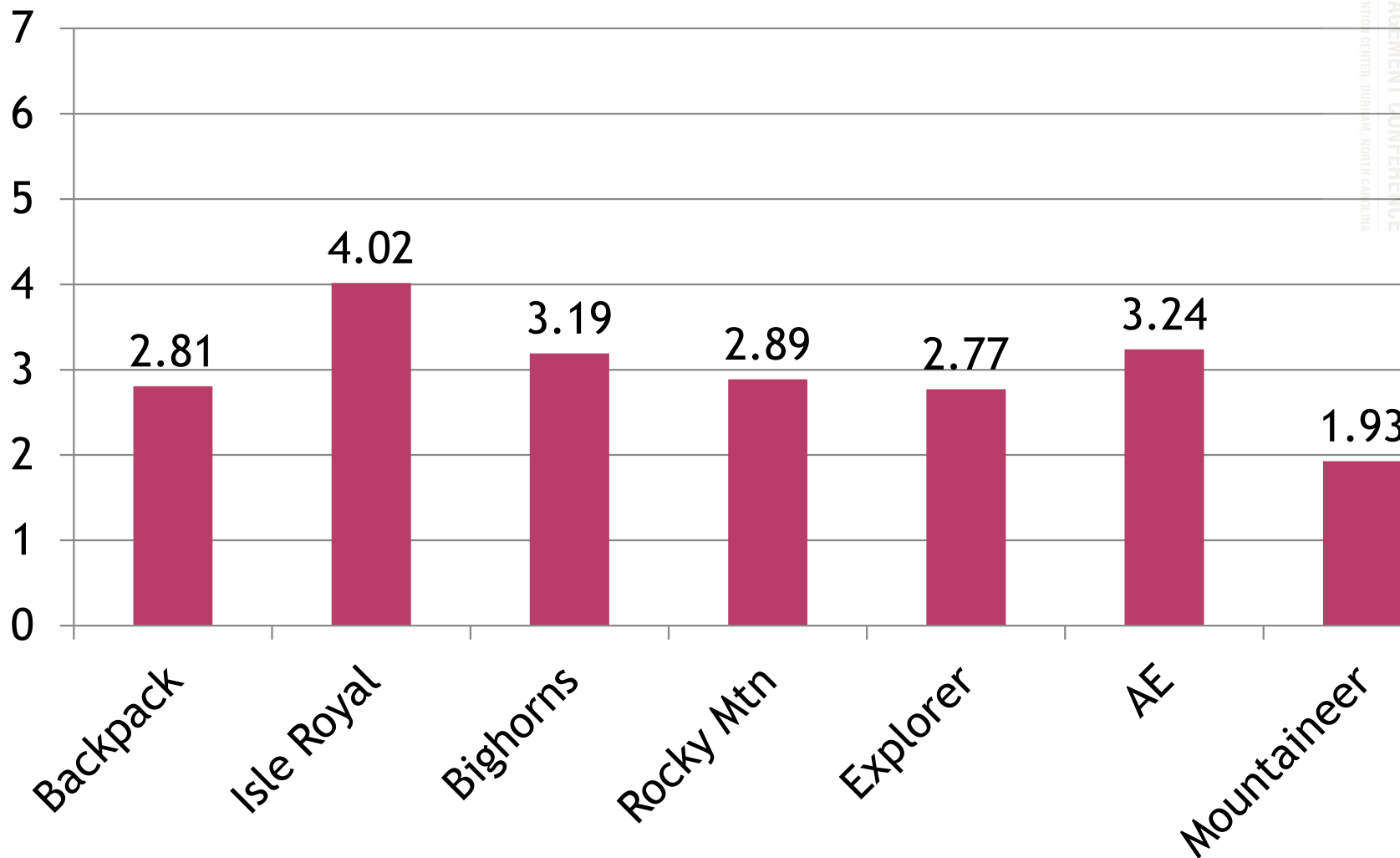
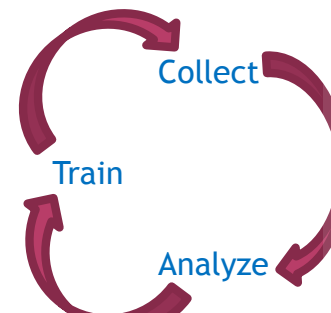
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OUTWARD BOUND SCA
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Incidents per 1000 Camper Days 2000 - 2012



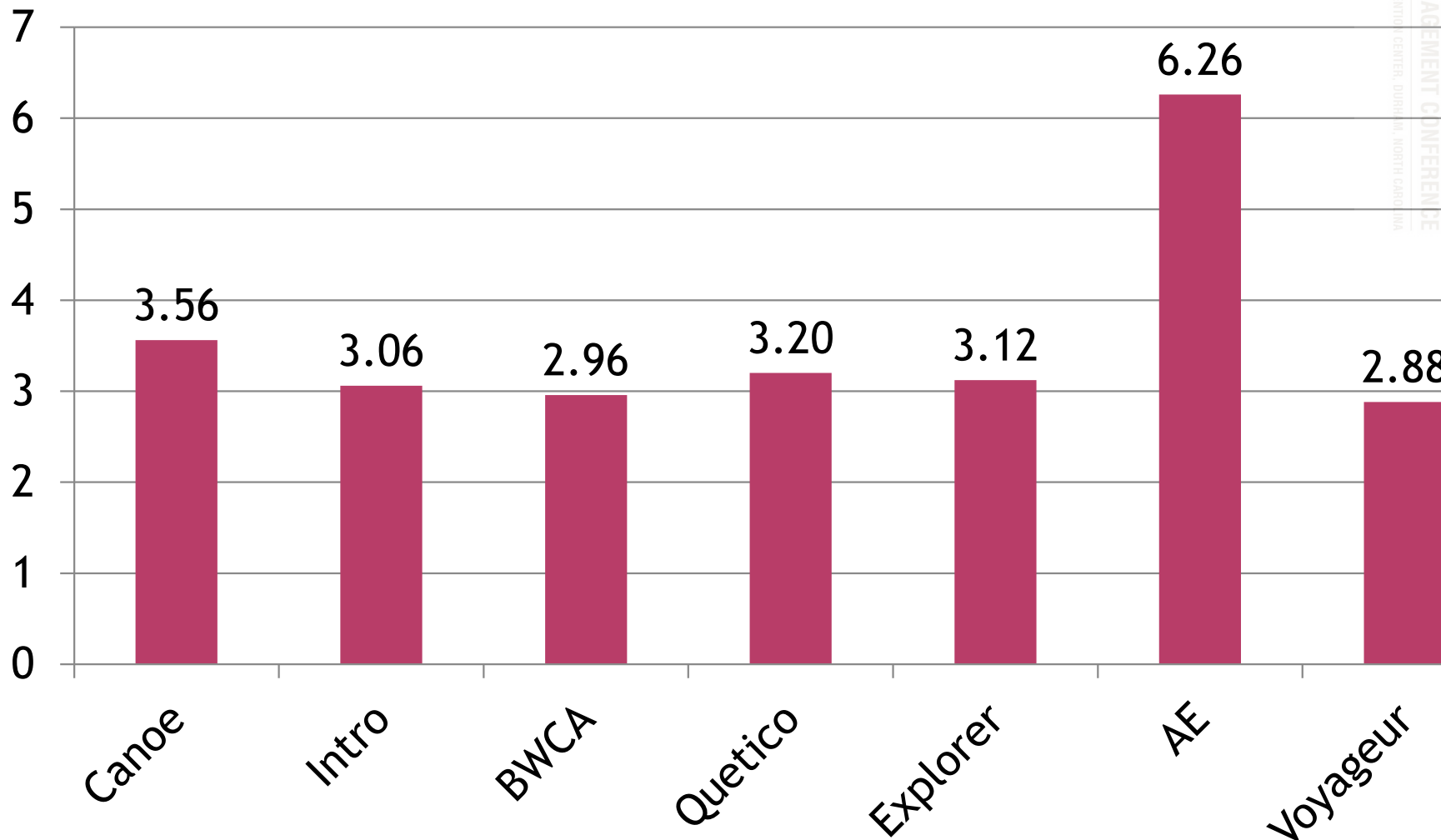
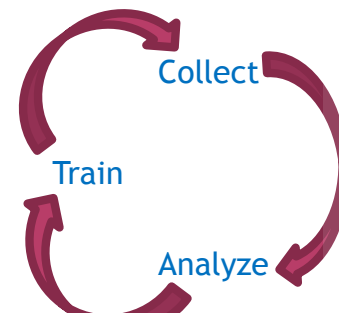


AVERAGE INCIDENTS BY BACKPACKING TRIP TYPE



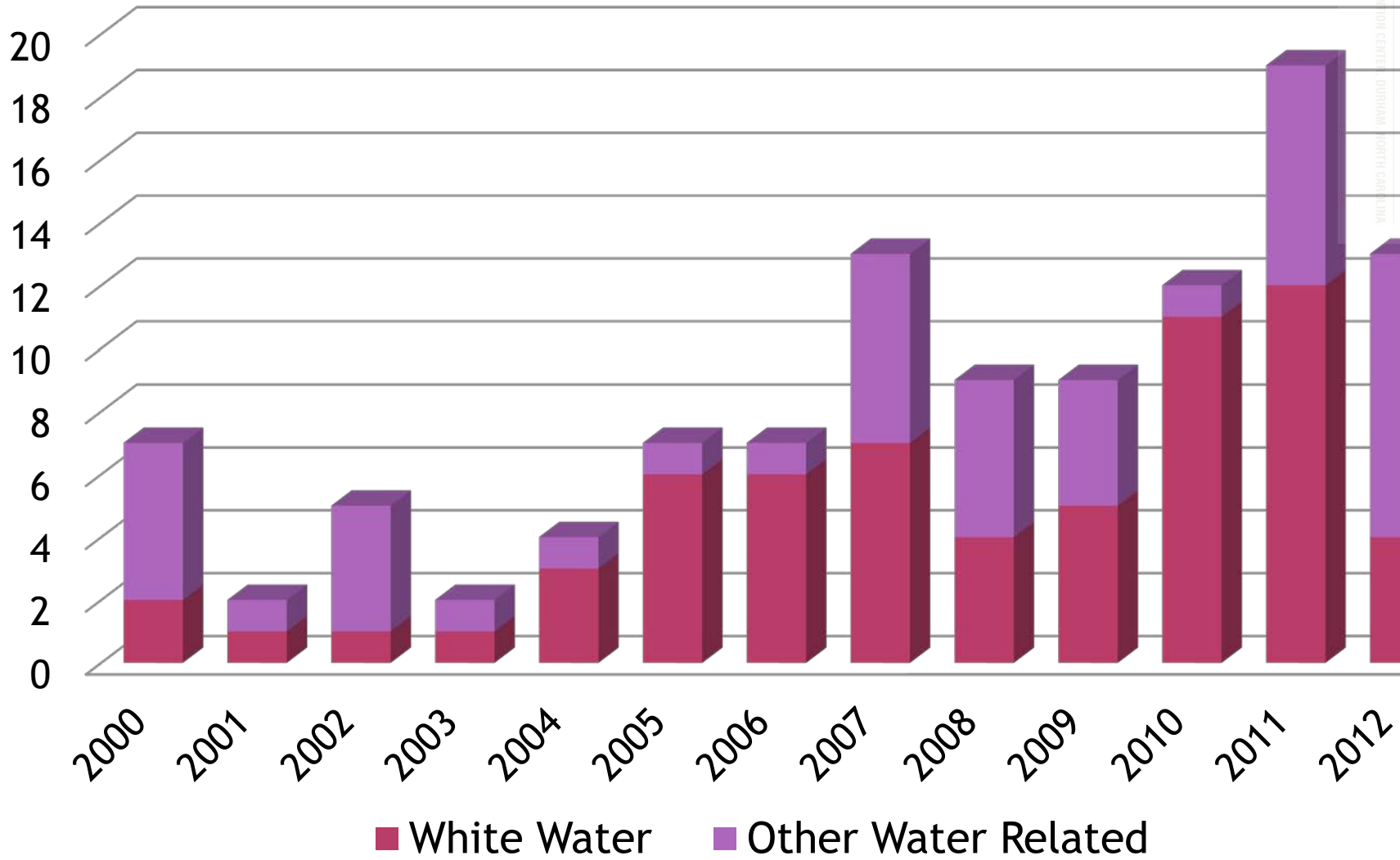
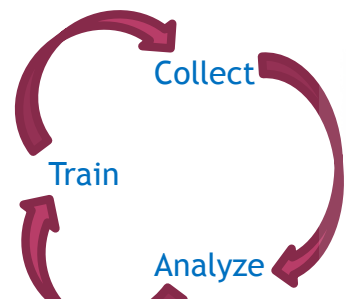


AVERAGE INCIDENTS BY CANOEING TRIP TYPE





WHITE WATER OR FLAT?

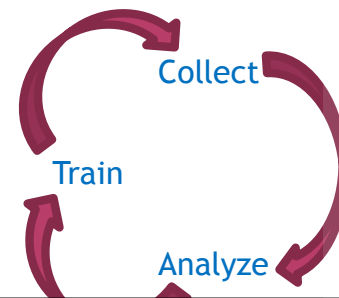


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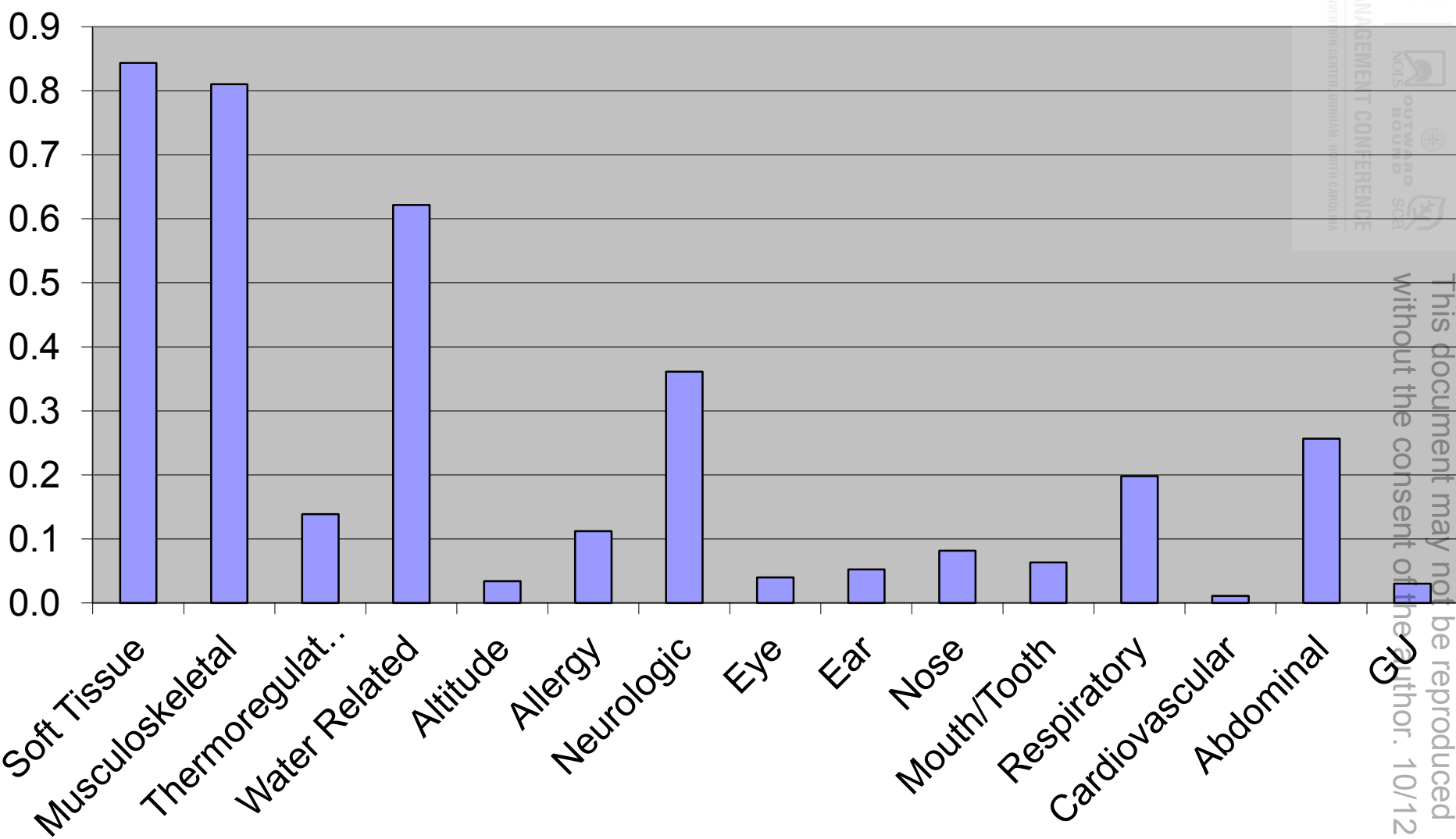


INCIDENTS BY TYPE OF INJURY



SCOTTISH COLLEGE OF DISTANCE EDUCATION
WILDERNESS RISK MANAGEMENT CONFERENCE
NOLS
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GU





TRAIN



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WPMVA
WILDERNESS PUBLIC LAND MANAGEMENT ADMINISTRATION
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WILDERNESS SOCIETY
www.wildernesssociety.org

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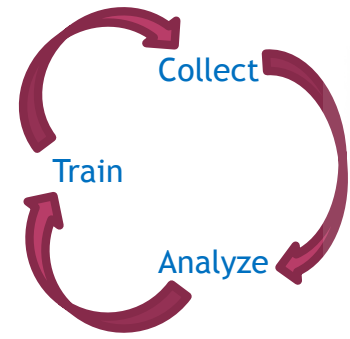
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 **OUTDOOR SOCIETY**
 **WILDERNESS SOCIETY**
 **WILDERNESS EDUCATION**



ANKLE INJURIES



Day of injury



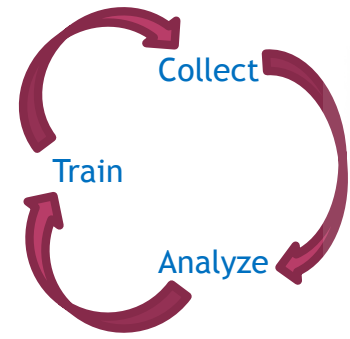
Day 4

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OUTWARD BOUND SCA
VOLTS ROUND

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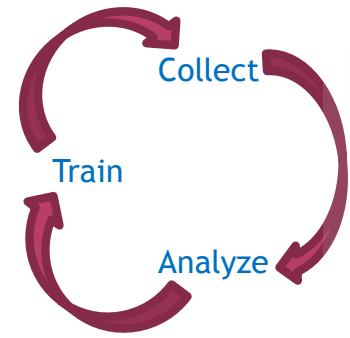


NECK INJURIES



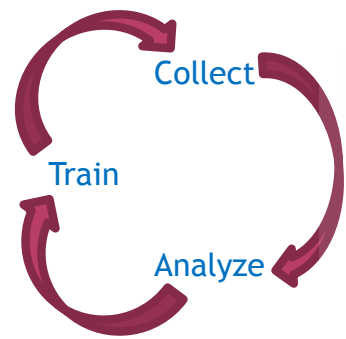


MAKE TRAINING REAL





FOCUS ON COMMON PROBLEMS





QUESTIONS?

What Will You Do To Make Your Program Safer?

- Collect Your Data
- Develop a Team to Review Your Data
- Turn What You Learn Into Training