



INTRODUCTION

Field teaching / research involves some level of risk; one part of this may come from chance events that are unpredictable and little can be done about it. Another part of the risk, however, can be greatly reduced by awareness of hazards and good judgment based on experience. Persons undertaking field work must assess the risk, as far as possible, and this will vary in accordance with weather, topography and other conditions on the day and the experience, age, fitness and other characteristics of the people doing the work. No person is advised or recommended here to undertake field work in any way that might place them in unreasonable risk from physical or health hazards. Individuals and leaders should carefully consider the safety aspects on the occasion of their visit and in bad conditions be prepared to cancel or modify part or all of the field trip as is necessary for safety. The following is a set of guidelines to assist with putting together a safety plan for field teaching / research.

TRAVEL INSTRUCTIONS AND GUIDELINES

Abide by all OSU and state rules and regulations.

Driving and Vehicle Safety

- Seat belts save lives. Everyone must be buckled before the vehicle moves.
- Only authorized drivers will drive OSU vehicles.
- Drivers should not drive more than ~ 2 hrs without a break.
- Ensure that there is a passenger list in the vehicle.
- Always check to make sure that all passengers are present before leaving a field trip stop.
- NO alcohol is to be transported in state vehicles.
- NO ONE may drink and drive.
- OBEY the speed limits, and drive according to the weather, road conditions, etc.
- NO use of cell phones while driving.
- NO texting while driving.
- Park the vehicles away from any potential source of fire, such as dry grass.
- All participants and drivers should identify who has keys before we go out into the field.
- Work may be conducted in areas where cell phone coverage is spotty or non-existent. Try to determine where coverage occurs and have emergency plans based on this.
- NO one should take a vehicle without consent of an instructor, or without communicating a plan to the instructor; THE ONLY exception is in the case of an emergency
- One of the most frequent driving issues that occur in field classes are small incidents in parking lots, campgrounds, etc. These can be avoided by having other people watch for obstacles, people, and other vehicles, particularly when backing up.

Vehicle Fire Safety: *If there is a vehicle fire, what should I do?*

- Get yourself and all others out of and away from the vehicle. Be aware of traffic

- and pedestrian activity and warn them away from the vehicle.
- DO not try to save equipment or personal belongings, just get out.
- If there is a fire extinguisher in the vehicle, take it with you as you exit the vehicle. Even if you cannot use the fire extinguisher, it may be useful to emergency responders that arrive on scene.
- Never put yourself in danger using a fire extinguisher.
- Fire extinguishers must be appropriate for the type of fire.
- Only trained persons should try to control a fire. *Do not attempt to use a fire extinguisher unless you have been properly trained to do so.*
- If you use a fire extinguisher, follow the procedures given during your training and only do so from a safe distance and always have a means to get away.
- After you are a safe distance from the vehicle, call 9-1-1 or the local emergency telephone number. Tell them the location of the fire and follow the instructions of the dispatcher.
- Remain away from the vehicle: *do not attempt to get back into a burning vehicle to retrieve personal property.*
- Do not open the hood or trunk if you suspect a fire under it. Air could rush in, enlarging the fire, leading to injury.

FIELD SAFETY: POTENTIAL SOURCES OF RISK AND PROCEDURES

SAFETY IN THE FIELD IS EVERYONE'S RESPONSIBILITY. STUDENTS ARE EXPECTED TO ACT RESPONSIBLY AT ALL TIMES.

The following is a list of procedures and risks associated with field teaching / research. This list is not all encompassing, but it represents the best estimate of potential issues. It encompasses driving, field work, environmental, and other risks.

1. **Safety comes first.** No project or data is worth your life. The question, "Can I do this safely?" should always be foremost in your mind. If you have any doubts, STOP immediately, evaluate the situation, and then determine a safe procedure. If none exists, do not continue the project or work. Return home and discuss the project and safety concerns with your supervisor.

2. **Field safety training.** All participants are required to read and understand the CFAES Field Teaching and Research Safety Guidelines and materials specific to your department.

3. **Plan for safety before you go into the field.** Think about the terrain (cliffs, sand, deserts, fast water, slot canyons, etc.), environment (plants and animals), season (hot, cold, rain, snow, etc.), roads and trails (how will I get out if a road washes out?); will the roads become impassable if it rains?); and your own physical condition and health. Check the weather forecast – how cold will it get at night at the elevations where I will be working? Is rain or snow possible? How far away will I be from my vehicle? Consider all these factors, and then make sure that you have adequate training and skills to handle any situation that might arise. Read manuals and information on the area and hazards. Decide how you will respond and what gear you might need. Check your safety gear before you go into the field. Prepare for the worst weather and conditions you might encounter.

4. **Extreme or Severe Weather.** Individuals and leaders should carefully consider the safety aspects on the occasion of their visit and in bad conditions be prepared to

cancel or modify part or all of the field trip as is necessary for safety.

5. **Discuss safety concerns with your supervisor.** If you are concerned about any situation you might encounter, or feel that you do not have adequate training or experience, discuss your concerns with your supervisor before you go into the field.

6. **Safety procedure when in a group.** Most trips will be conducted in a group setting.

- Remember to be aware of where other students are at all times. AVOID CLIMBING above other students, or on any outcrop that provides a large potential of hazards.
- Field groups will be assigned for both learning and safety. Please be aware of where your group members are at all times.
- Do NOT go out of sight for long periods of time. Instructors continually count heads, and if we cannot find you, we will begin to look for you.
- Risky behavior will not be tolerated in the field. Any willful behavior that endangers oneself or other students is cause for the student to be sent home at his/her own expense. The student field trip policy that all students must sign prior to travel requires that students acknowledge this policy.
- Water, first aid equipment, and some emergency supplies will be placed in each field vehicle, and for most of the class, vehicles will be left open so that these items are immediately accessible.
- When camping overnight, establish a common base camp for all groups. Also, attempt to camp as close to habitation as possible.
- Have a good sense of the abilities of everyone in your group. Are there people who are out of shape? Is there someone with limitations? Any health issues?

7. **Working ALONE in the field requires extra precautions. Designate a Contact Person before working alone in the field. Working alone should be avoided if possible.** There is no such thing as a totally risk-free situation and it is easy it is to become incapacitated. e.g. by a badly twisted ankle, even in apparently "safe" countryside. If another person is present, it is extremely rare for such incidents to become potentially dangerous. Your contact should be a reliable adult (your spouse, colleague, or a good friend) who will monitor your status in the field, who you will contact frequently while in the field to assure them of your safety, and who will initiate a search if one is needed. In any case, faculty will act as the contact if needed. NEVER leave without leaving word with someone.

a. BEFORE leaving for the field, WRITE OUT a clear action plan (verbal information is seldom reliable when someone is worried or upset). Decide together each step or procedure each of you will follow – and when. Be clear on details. **Uncertainty leads to inaction** – if your contact person is unsure of your intent, location, or check-in time, he/she will hesitate to initiate a search. Your plan should include:

1. Where you are working. Be as precise as you can. Leave an accurate detailed map. Leave GPS coordinates if possible.
2. Give the contact person all possible information on how they can locate you while you are in the field (your cell number, motel info, etc.) and the name and phone number of the main office and your supervisor.
3. A specific time when you will check in with the contact person. For example: Calling home each evening before 10 p.m. If you will be camping or otherwise outside of phone range, tell the person when you

will be able to contact them again.

4. A specific time when the support person should initiate a search. This should be several hours after the initial check-in time to leave a buffer for a broken-down vehicle, dead cell-phone batteries, or some other non-serious problem – you do not want your contact person calling the sheriff for minor problems. For example: your contact person could initiate a search if you have not checked in by 12:00 o'clock (noon) the day after you fail to check in. Noon is the ideal time for your contact person to initiate a search. It gives you time to get yourself out of non-life-threatening fixes in the daylight, and to check in. But it still gives the sheriff's office time to mobilize a search with enough daylight left to have a chance of finding you. Psychologically, it is much easier for an injured person to survive if they know that help is on the way.

5. The steps your contact person will follow if you do not check in by the agreed upon time. For example: (1) Call the nearest land manager, etc. where you are staying – have them look for a vehicle (2) Call the main office or your supervisor to see if they have any information (generally this will be near the middle of the day on a weekday). (3) Finally, if the contact person cannot contact you or the supervisor, they should call the sheriff of the county in which you are working and give them all the information they can. From that point the county sheriff will decide how to respond.

Follow your plan! Check in with your contact person daily. If you forget to check in, you will probably have a Sheriff's Search and Rescue Team looking for you.

8. Do not work alone in high-risk situations. A buddy system is not required for normal backcountry fieldwork. However, some situations do require a field companion. These include: work involving boats or travel on or next to deep water, work in any areas with known or suspected higher-than-normal crime rates, work in unusually remote locations, work in very hot or very cold weather, and work that requires technical climbing, rappelling, or very steep terrain and any other work with higher-than-normal risk (additional safety training or skills verification may be required). The companion should be someone that can help you in case of a high-risk situation. The field worker should determine if any such risks exist and discuss any concerns or requests for a field companion with his/her supervisor. **When working alone, double your margin of safety.**

9. FIELD WORK IS NOT AN EXTREME SPORT! Have a safe attitude. We live in a society where people are encouraged to "push the limits." A risk-taking attitude is probably the single largest contributing factor in most accidents. This attitude leads directly to injuries and deaths. Get rid of this attitude before you go.

10. Choose the safe option. Yes, it may take longer, but hike around the cliff rather than trying to climb over it. Hike up the stream bank to a better crossing rather than crossing in fast water. Do not venture out on steep slopes above cliffs. When lightning threatens – head down and to shelter immediately. Do not try to accomplish "one more task" before it gets dark.

11. Always be prepared to keep yourself alive overnight. If you are out alone (sometimes even in a group) and incur any kind of problem – lost, broken leg, trapped on a cliff, severe illness, etc. – it is almost certain that you are going to have to spend the night out. Many poorly prepared people have died in the first night from exposure. When wet and/or injured hypothermia becomes a very real danger at

moderate temperatures.

12. Carry appropriate gear. Carry everything you need to assure your own safety and survival (see separate lists). When hiking away from vehicles, carry a personal Survival Kit. You can make up a good kit that weighs about 1 pound that could keep you alive in many situations (see separate list). Practice using the items ahead of time – can you really build a fire when it's raining, you are shaking, and your hands are ice cold?

13. Carry a cell phone, satellite phone, or personal locator beacon. Know how and when to use it. Make sure it is fully charged. If a regular cell phone, know where it will be within range, and where it will not be. At least one member of any field group should have one of these three items, and know how to use them. Remember, once activated, a personal locator beacon signal cannot be retracted, so a search will be initiated – activate it only in a true emergency (but if it is an emergency, don't hesitate – waiting too long may cost lives).

14. Carry extra water and purification tablets. When hiking away from vehicles, carry enough water to survive for 2 or more days. Always arrive back at your vehicle with water left in your bottle. Always keep extra water in your vehicle – 1 or more gallons per person depending on the situation and season of the year. Carry a few purification tablets in your survival kit. Know where to find water in your field area.

15. Carry a first aid kit. Know how to use it. Take first aid and CPR training and refresher courses regularly. Consider taking wilderness first aid training. The first aid kit should contain a large trauma bandage. Know how to use these products.

16. Carry safety gear. The following safety items: pepper spray (can help against bears, cougars, or aggressive people), first aid kit with added trauma bandage, and emergency mylar blanket can be extremely helpful when in the field. The participant should take these to the field, especially on all hikes away from the vehicle, and provide additional personal safety gear needed for each field situation.

17. Wear and carry proper clothing. Each participant is required to provide all needed apparel (field clothing, coats, hats, gloves, boots, waterproof outerwear) that is appropriate for any weather or situation the participant could encounter. Purchase high-quality apparel from a reputable supplier. Assure that all apparel is tested and recommended by the manufacturer for the situations you could encounter – the field is not the proper place to find out that your “waterproof” jacket is really not waterproof.

- a. Wear a safety helmet (preferably with a chinstrap) when visiting old quarries, cliffs, caves, scree slopes, etc., or wherever there is a risk from falling objects. It is obligatory to do so when visiting working quarries, mines and building sites.
- b. Wear safety goggles (or safety glasses with plastic lenses) for protection against flying splinters when hammering rocks or chisels.

18. **Keep yourself physically fit.** Know your own health and your own limitations. This is another of the main factors in many outdoor injuries and deaths. The problem started because of poor personal physical condition. For example: weak heart led to heart attack, poor fitness prevented hiking as far as planned, fatigue led to poor judgment, poor conditioning led to severe illness, bad knees or ankles led to slips and falls, etc.

19. **Leave a margin of safety.** For example: leave an extra hour of daylight to get back to your vehicle; leave high ridges before the thunderstorm gets there; do not climb up a ledge or cliff just because you “think you can make it.”

20. **Hunting safety.** While the large majority of hunters are safe and responsible, a small number are not. The highest risk is during rifle deer season when the most hunters are in the field with guns. Seasons vary significantly across the region – determine if hunting season is open in the area you will be working. If possible, avoid going to the field during open rifle seasons. If you do need to go to the field, wear “hunter orange” clothing – at least a vest and hat – while outside of your vehicle. Avoid areas where hunters tend to concentrate. Be respectful of hunters by: 1- talking to hunters in the area – ask them where they plan to hunt and to be aware that you are in the area; 2- avoid their “focus” areas – game trails, watering holes, open meadows, etc. – hunters often spend several hours setting up a hunt and one person walking through the area can ruin all their work; 3- in short, do not interfere with the hunt (regardless of your personal views) – an irritated hunter is not a good thing.

21. **Water safety.**

- a. Stream crossings, when necessary, should be executed with the utmost care. If water craft are used, personal flotation devices (pfd) MUST be worn.
- b. Obtain local information about tides and currents. Pay particular attention to tidal range. Always wear footwear when wading in rivers, lagoons or on the shore.
- c. Take special precautions when working offshore. Small boats should normally be used only with an experienced boatman or colleague.

22. **Creature Safety.** Avoid all contact with animals, insects, and other creatures. NO snake playing!!

23. **Food Safety.** Attempt to keep a clean and sanitary food preparation area for safety. However, there are always risks associated with food.

24. **Environmental Safety.**

- a. Take special care near the edges of cliffs and quarries, or any other steep or sheer faces, particularly in gusting winds. Ensure that rocks above are safe before venturing below. Quarries with rock faces loosened by explosives are especially dangerous.
- b. Avoid working under an unstable overhang.
- c. Avoid loosening rocks on steep slopes.
- d. Do not work directly above or below another person.
- e. Never roll rocks down slopes or over cliffs for amusement.
- f. Do not run down steep slopes.
- g. Beware of landslides and mudflows occurring on clay cliffs and in clay-pits, or rock falls from any cliffs.
- h. Avoid touching any machinery or equipment in quarries, mines or building

sites. Never pick up explosives, or detonators from rock piles; if found, inform the management immediately.

j. Do not enter old mine workings or cave systems unless it has been approved as an essential part of the work. Only do so then by arrangement, with proper lighting and headgear, and never alone. Ensure that someone on the surface knows your location and expected time of return. Be sure to report after returning.

k. Rock-climbing, caving and scuba diving may be useful in research activities, but are dangerous for the untrained or ill equipped. They should only be undertaken with the prior approval of the supervisor.

25. Environmental Consideration. Please do not disturb the environment more than is absolutely necessary.

- a. Do not collect specimens unless required for serious study.
- b. Do not disturb living plants or animals.
- c. Do not leave litter, including rock chippings.
- d. Observe conservation requirements.

26. DRIVING – THE BIGGEST RISK! Statistically, driving and riding in a vehicle are the highest-risk part of fieldwork. Follow all federal, state and OSU rules. Do not drive while fatigued or distracted. If you are tired after a long day in the field, it is better to camp or get a motel room then make a long drive home. Be alert to changing weather conditions that could turn a dry road into a dangerous situation. **See “Travel Instructions” Section for more information.**

27. When working in groups, have a plan for keys for vehicles. If a part of your group needs to drive out, hiding keys near the vehicle avoids losing time finding the person with the keys.

- a. Get phone numbers of team members.
- b. Make a Google map of the nearest hospitals.

28. For classes, it is strongly recommended that everyone wear safety color vests or shirts.

NOTE: Many tasks and projects require additional safety procedures not covered by this manual. These include: (1) underground work in mines, caves, or tunnels; (2) work in trenches, near open-pit mines, on mine tailings, and on or near other human-made structures or deposits; (3) work on or near drill, construction, and other active work areas; (4) work involving many types of motorized or manually operated equipment; (5) use of ATVs; and (6) operating motor vehicles. Discuss these situations with your supervisor, and obtain appropriate training BEFORE working on projects or entering sites involving any of these types of situations.

SAFETY EQUIPMENT TO BE CONSIDERED FOR THE FIELD

In your daypack:

- 1- safe attitude
- 2- cell phone or satellite phone or personal locator beacon w/ manual
- 3- trauma bandage
- 4- emergency mylar blanket/sleeping bag
- 5- aspirin
- 7- water purification tablets
- 8- insect bite ointment
- 9- pepper spray (can help against bears, cougars, or aggressive people)
- 10- personal first aid kit (see "First Aid Kit" for more information)
- 11- personal survival kit (see "Survival Kit that Weighs About a Pound")
- 12- proper clothing, boots, outerwear for worst possible weather
- 13- water and food
- 14 Simple first aid kit

In the car:

- 1- shovel (large)
- 2- small hand ax
- 3- tow strap
- 4- jumper cables
- 5- 3 types pliers
- 6- 1 – 6-way screwdriver
- 7- two emergency reflective mylar sleeping bags
- 8- first aid kit with supplies, booklet, knife, etc.(see "First Aid Kit")

Also – ALWAYS check vehicle, jack, jack handle, lug wrench, spare tire

FIELD SAFETY CHECKLIST

Complete Before Each Trip to the Field
Modify According to Own Needs

- ☐ Studied Field Safety Policy and Information Manual
- ☐ Did a safety evaluation of this project or trip to the field – what are the risks?
- ☐ Prepared for hazards/risks I could encounter on this trip
- ☐ Completed USU Travel Information Form; leave in Geology Dept. Office.
- ☐ Made a written emergency plan with my adult Contact Person
- ☐ Have cell phone or satellite phone or personal locator beacon
- ☐ Have personal first aid kit (and checked contents)
- ☐ Have personal survival kit (and checked contents)
- ☐ Have vehicle kit (and checked contents)
- ☐ Have good personal field clothing
- ☐ Have proper weather-appropriate outerwear and boots
- ☐ Have medications or other personal needs
- ☐ Did personal check of field vehicle:
 - tires in good condition, check air
 - jack, jack handle, lug wrench, spare tire has air and good tread

Some possible risks to plan for (take time to read/research about how you could handle or prepare for these situations):

- driving safety to/from/in field
- fatigue
- driving back country roads
- heat related concerns
- cold related concerns
- drinking water needs
- lightning
- weather changes
- cliffs, steep slopes, ledges
- deep or fast water
- bears, cougars, moose, etc
- insects – allergic reaction
- insects – diseases
- snakes, scorpions, etc
- poisonous plants
- illness/food poisoning
- altitude sickness

- lost, delayed
- surviving overnight if caught in outdoors
- falls, sprains, breaks
- personal health (heart, knees, back, etc)

Human encounters:

- verbal confrontations
- assault/aggression
- robbery/car jacking
- stumbling upon crime
- hidden drug crops

First Aid Kit

It is essential that participants take first aid kits with them in the field. There should be a portable kit as well as one with extra supplies in the vehicles. A traditional kit will include the following¹:

- 2 absorbent compress dressings (5 x 9 inches)
- 25 adhesive bandages (assorted sizes)
- 1 adhesive cloth tape (10 yards x 1 inch)
- 5 antibiotic ointment packets (approximately 1 gram)
- 5 antiseptic wipe packets
- 1 blanket (space blanket)
- 1 breathing barrier (with one-way valve)
- 1 instant cold compress
- 2 pair of nonlatex gloves (size: large)
- 2 hydrocortisone ointment packets (approximately 1 gram each)
- Scissors
- 1 roller bandage (3 inches wide)
- 1 roller bandage (4 inches wide)
- 5 sterile gauze pads (3 x 3 inches)
- 5 sterile gauze pads (4 x 4 inches)
- Oral thermometer (non-mercury/nonglass)
- 2 triangular bandages
- Tweezers
- First aid instruction booklet

It should also include the following non-prescription drugs:

- Aspirin or non-aspirin pain reliever
- Anti-diarrhea medication
- Antacid
- Syrup of Ipecac (to induce vomiting if advised by Poison Control Center)

What Should Be in Your Daypack

1. Survival kit – put in a small nylon or ziplock bag. Make sure it is always in your backpack. Replenish it as needed. Everything in a good kit can weight under 1 pound (see separate list).
2. First aid kit with trauma bandages.
3. Water -- 2 quarts per day on cool fall days; 3-5 or more quarts per day on hot summer days. Depending on location, also consider: water filter, purification tablets..
4. Detailed map. Review it before you need it.
5. GPS (Never rely on a GPS unit as my only means of finding my way). If you do rely on a GPS, make sure you have extra batteries.
6. Compass.
7. Waterproof headlamp and extra batteries. A headlamp is much better than a flashlight because it leaves your hands free. Should be good quality. Batteries in LED lights last much longer, but the beam range is limited.
8. Extra food. About 1000 - 2000 calories in high-energy bars, candy bars, etc.
9. Clothes and outerwear for the worst weather you might encounter if you get caught out overnight. Be prepared for rain, sleet, snow, wind, or severe cold. Make sure all clothes are high-quality synthetic fiber that insulate even when wet; DO NOT wear cotton. COTTON KILLS! Depending upon conditions, consider:

- a. Warm hat is a must, even in summer
- b. Sun hat that protects face, neck, and ears
- c. Warm gloves
- d. Dry warm socks
- e. Thermal underwear (high-tech synthetic fabric is lightweight, compact, and very warm for size)
- f. Waterproof coat and pants; GoreTex or other breathable waterproof fabric
- g. Fleece jacket and pants
- h. Rain hat
- i. Rain coat and pants; or poncho
- j. Small first aid instruction booklet

Also consider:

- 1. Safety glasses (we are geologists who break rocks)
- 2. Extra prescription glasses
- 3. Special medicines or needs; for example: allergy “epi” pen
- 4. Sunglasses
- 5. Sunscreen and lipscreen
- 6. Insect repellent and/or headnet
- 7. Toiletries
- 8. Sanitary handwipes or antibiotic waterless hand cleaner

SURVIVAL KIT THAT WEIGHTS ABOUT A POUND

Keep in a small nylon or Ziplock bag. Make sure it is always in your backpack. Replenish often. Together, everything here can weight about a pound.

- a. Mylar emergency sleeping bag. Like the standard “emergency blanket” but shaped like a sleeping bag, making it easier to seal out cold breezes.
- b. Wind and waterproof matches. The best ones are from REI and burn even in a strong wind. Seal in a waterproof container. Make sure the striker is included. A magnesium stick is a reliable fire starter, but they take a lot of work and are difficult to use when your hands are cold.
- c. Fire starter. Several kinds are available or make your own. Try them out and find the one you like the best.
- d. Multi-function pocket knife. Small but good quality. Leatherman or Swiss Army knife. Not a cheapo version.
- e. Compass. Make sure North is easy to read. The DNR Bookstore has a small compass with a thermometer attached.
- f. Flashlight. One of the tiny LED lights is a good backup to the larger headlamp that you should have in your backpack. Make sure the ON button is protected from accidental pressure.
- g. Loud whistle. This may have saved the life of the Boy Scout that died in the Uinta Mountains a few years ago. Nobody can yell for very long. A good one has a tone that carries a long distance.
- h. A few heavy-duty Ziplock bags. For emergency water, to keep hands dry, etc.
- i. A large sheet of heavy-duty aluminum foil. Can form an emergency cup or a small pan to heat water over coals (do not use over hot flame).
- j. Small length of sturdy cord.
- k. Small roll of duct or adhesive tape.
- l. Large sheet of fluorescent orange plastic.
- m. Small amount of high-energy food or candy. Coffee, tea, or bouillon packets are good for making a hot drink that also restores salt and gives a psychological boost.
- n. Water purification tablets.

- o. Small reflective signal mirror.
- p. Paper and pencil stub.
- q. A few sanitary hand wipes.
- r. Elastic ace bandage. Can give a sprained ankle enough support to walk out, or secure an emergency splint or bandage.

Also consider:

- s. Small wire pocket saw (helps when gathering wood in emergency).
- t. Large garbage bags (emergency rain poncho or shelter).
- u. Big and small needle and strong thread (dental floss works as a strong light thread for repairing equipment).
- v. Wire.
- w. Safety pins.
- x. Candle.
- y. Mole skin or other blister preventative.
- z. QuikClot (high tech powder to stop severe bleeding).
- aa. Small Sterno can or other micro-stove with fuel.
- bb. Map of work area.

In the event of an emergency – S.T.O.P.

- Stop – sit down, slow your breathing, calm yourself, sip some water, suck on some candy. Even in an emergency – take a few seconds; do not make one tragedy become two.
- Think – force your analytical mind to take over; resist the urge to panic, react automatically, or make hasty reactions
- Observe – your surroundings, your own condition, your resources, your options
- Plan – make a decision, then proceed slowly and thoughtfully (but alter the plan if needed)

ACKNOWLEDGMENT OF PARTICIPANT

By signing this statement, I acknowledge and certify that the following actions and communications were performed in a clear manner.

I was informed of the procedures, regulations, and sources of risk. I have had sufficient time to read the materials provided, and I was informed in a safety seminar by the instructor of the procedures, policies, and risks involved.

I was given opportunities to ask questions, both in private and in public, to clarify any of the information provided.

I provided a full and truthful statement of my health status, and I was provided opportunities to discuss any health issues with the instructor.

It was made clear that risk assessments and general planning have occurred for this class, but that no one can foresee all risks and situations in this class.

I am aware that IF AT ANY TIME, I violate these safety or field guidelines, and the instructor[s] deem my behavior to have contributed to an unsafe or inappropriate learning environment, the instructors have the right to rectify the situation. This might include a discussion with me and/or other students to correct the behavior, and/or it may lead to immediate removal from the course, in which case, participants are provided a ride to the nearest public transportation to return to Logan.

Signature of Student

Date

Signature of Instructor

OSU College of Food, Agricultural, and Environmental Sciences

Field Safety Plan

This template may be used by the Principal Investigator (PI), Project Manager, Professor, or Instructor to **assist** with the development of a Safety Plan for classes and research projects.

The completed Safety Plan should be shared with all the members of the field team.

Multiple trips to the same location can be covered by a single Safety Plan. The Safety Plan should be revised whenever a significant change to the location or scope of fieldwork occurs.

☐ Field Teaching

☐ Single Site Visit ☐ Multiple Site Visits

☐ Field Research

☐ Single Site Visit ☐ Multiple Site Visits

Section I.

Principal Investigator/Project Manager/Professor/Instructor:		Department:	
Phone:		Email:	
Project Duration:			

Location of Field Teaching / Research

Country:		Geographical Site:	
State or County:		Nearest City:	
Nearest Hospital or Other Health Facility:		Phone Number:	

Attach map with driving directions from field site to nearest hospital or health care facility

OSU Contact Person:		Phone:	
Local (Field) Contact Person:		Phone:	

Field Work Personnel (Attach separate sheet of paper if necessary)

Name	Affiliation, Phone, Emergency contact #s and names	Category (check all that apply)			
		Leader	Team Member	Other (specify)	Trained First Aider
		<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>

Section II.

Field Research Study/Project: Describe scope of fieldwork or activity. (Attach separate sheet of paper if necessary). Please include county names, county Sheriff numbers, and general GPS coordinates of boundary of the study area. If you plan to be out of this area, describe your plan to let people know.

Hazards Inherent to the Project (Check all that Apply)

Environment

- ☐ High Altitude
- ☐ Extreme Temperature
- ☐ Excessive/Extreme Exposure to sun, wind, blowing sand, etc.
- ☐ Work Over/Under Water
- ☐ Diving

Accessibility

- ☐ Remote Location
- ☐ Long Distance to Medical Services
- ☐ Difficult Communications with the outside world

Terrain

- ☐ Rough/Unusual Terrain
- ☐ Flash Flood Potential
- ☐ Falling Objects (avalanches, rock falls, etc.)
- ☐ Work along roadway shoulders (Attach traffic control plan and permit, if required)
- ☐ Heights (trees, cliffs, etc)
- ☐ Disaster Area
- ☐ Violence (political, military, etc)

Work Tasks

- ☐ Work in Confined Space (natural or man-made)
- ☐ Trenching/Excavating
- ☐ Work at Night/Poor Lighting
- ☐ Noise Generated > 85 dBA
- ☐ Dusts/Other Particulate Hazards
- ☐ Potential for Oxygen Deficiency or Other Atmospheric Hazard (i.e. gas, vapor)
- ☐ Hazardous Waste Generation
- ☐ Transportation of Hazardous Materials
- ☐ Handling Hazardous Materials
- ☐ Storage of Hazardous Materials on site
- ☐ Lack of Potable Water
- ☐ Lack of Sanitary Facilities
- ☐ Flying Debris or Impact
- ☐ Electrical Hazard
- ☐ Fire Hazards (wildfires)
- ☐ Diving
- ☐ Climbing/Strenuous Hiking Required

Flora / Fauna <input type="checkbox"/> Wild Animal Hazards <input type="checkbox"/> Venomous/Poisonous Animals: _____ <input type="checkbox"/> Insects as Known Disease Carriers <input type="checkbox"/> Trapping/Handling Animals: _____ <input type="checkbox"/> Toxic/Poisonous Plants: _____	<input type="checkbox"/> Snowmobile/ATV <input type="checkbox"/> Boat/Canoe/Kayak <input type="checkbox"/> Forklift Materials Brought to Field Area <input type="checkbox"/> Chemicals <input type="checkbox"/> Biological <input type="checkbox"/> Radiological <input type="checkbox"/> Other: _____ <input type="checkbox"/> No Known Hazards
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Section III.

Safety Plan: Describe safety provisions or procedures for the hazard(s) identified in the field research activities. (Attach separate sheet of paper if necessary)

Personal Protective Equipment or Clothing Required: All field activities require basic protection including appropriate field clothing, hand protection, safety shoes/boots, and eye protection. Any additional PPE requirements based on the hazards identified as part of minimizing risk of exposure, injury or illness. (Check all that Apply)

<input type="checkbox"/> Face Shields <input type="checkbox"/> Hearing Protection <input type="checkbox"/> Hard Hat <input type="checkbox"/> Rain Gear	<input type="checkbox"/> Respirator: Type: _____ Cartridge/Filter Type: _____	<input type="checkbox"/> Portable Eye Wash <input type="checkbox"/> Emergency Shower <input type="checkbox"/> Fall Protection <input type="checkbox"/> Extraction Equipment (Confined Space) <input type="checkbox"/> Other: _____
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Travel Immunizations: List any required immunizations/prophylaxis required for this field study	
Preparedness (Check all that Apply)	
<input type="checkbox"/> Medications (Taken on a Regular Basis) <input type="checkbox"/> Allergy Treatments (as needed) <input type="checkbox"/> Adequate Food and Water Supplies <input type="checkbox"/> Water Purification Tablets or Filter Devices <input type="checkbox"/> Other: _____	
Safety Training Required	
<input type="checkbox"/> First Aid/CPR	<input type="checkbox"/> Biosafety
<input type="checkbox"/> Emergency Action and Preparedness	<input type="checkbox"/> Radiation Safety
<input type="checkbox"/> Project Specific Hazard Communication	<input type="checkbox"/> Laser Safety
<input type="checkbox"/> OSHA Carcinogens	<input type="checkbox"/> Respiratory Protections
<input type="checkbox"/> Compressed Gasses and Cryogenic Liquids	<input type="checkbox"/> Forklift/Other Heavy Equipment
<input type="checkbox"/> Hot Works	<input type="checkbox"/> Confined Space Entrant/Attendant/Supervisor
<input type="checkbox"/> Dangerous Good/Hazardous Materials Shipping	<input type="checkbox"/> Heat Illness Prevention
<input type="checkbox"/> Certified SCUBA Diver	<input type="checkbox"/> Other: _____

Section IV.

Emergency Plan/Procedure: Describe emergency response procedures in an event of an injury, exposure, accident, or other emergency situation. Include emergency communication, evacuation plans, etc. (Attach separate sheet of paper if necessary)