ESCI Field Camp Grande Ronde River Trip, 30 April - 9 May 2024 ENVIRONMENTAL BRIEFING (conducted 26 April 2024)

Environmental Hazards

Weather – cold, wet

-- sun exposure

Storms – rain, snow

-- lightning

-- flash floods

-- high winds

Darkness

River -- cold water

-- rocks, LWD

-- fast currents, rapids

-- holes/water reversals

-- foot entrapment hazards

-- drowning

River banks -- unstable banks

-- loose sediment

Cliffs and ridges

Trees -- falling limbs, "widowmakers"

-- falling trees, snags

Tripping hazards, exposed roots

Wildlife – bears

-- cougars

-- elk & deer

-- RATTLESNAKES

-- cattle

-- raccoons

-- coyotes

-- mice (& Hanta virus)

-- TICKS

Unstable slopes & trails

Water contaminants – Giardia, GI parasites COVID

Human Hazards

Ego

Poor communication Interpersonal conflict

Unnecessary risk taking

Navigation errors, getting lost Pre-existing (medical) conditions

Allergies Dehydration Hypothermia

Improper gear & improper use of gear

Poor nutrition

Improper food storage Sleep deprivation & fatigue Distraction & lack of focus Inadequate (or no) footwear

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Inadequate first aid: care, supplies

Stoves & fuel bottles

Hot water Knives

Poor hygiene

Fecal matter/excrement

(i.e., contaminated hands as vector for illness)

COVID & other illness/diseases

Other people

Substances; drugs & alcohol Campfires -- hot embers -- proximity to tents

Private land owners

-- armed w/ guns, potentially hostile

Rafts -- large moving obstacles

-- improper gear storage

-- entrapment hazards (ropes, straps)

-- overturned rafts: entrapment, impacts

Rules to separate environmental and human hazards

Morning and evening check-ins

Minimum group size away from camp = 3 ("away" = beyond vocal distance)

Camp boundary for individual activity = within vocal distance

Sign-out/in form in camp, for all group trips away from camp

Search party if group > 1 hour after return time

Proper food storage -- whenever away from food/camp

-- no food in tents

Hand washing/sanitizing after defecation and before entering river kitchen

All water for drinking or cooking to be filtered or boiled

Carry 1st aid kit during day hikes

Stoves off after use, esp. at night

Routine tick-checks

Follow group norms

Follow WWU policy: no drugs, alcohol

Rafts, on river:

- -- wear PFD, whenever on boat not tied to shore (also wear PFD when scouting rapids, during rescues)
- -- properly rig/store gear on rafts (secure rigging and no loose straps, ropes, other hazards)
- -- maintain boat order; do not pass lead raft or fall behind sweep raft
- -- avoid foot entrapment risk:

DO NOT stand up in river, put feed down in water deeper than knee height

-- no exposed non-locking carabiners

Also consider:

Communicate environmental hazards to rest of group

Be prepared for weather, contingencies during day hikes -- bring 10 essentials, layers, rain gear -- secure tent, gear before leaving camp

Emergency communication; carry on day trips away from camp -- Sat phone, InReach

Groover: deposit poo and TP only; no other substances (urine, wipes, etc.)

NO GLASS!