Isaac Klemetsrud

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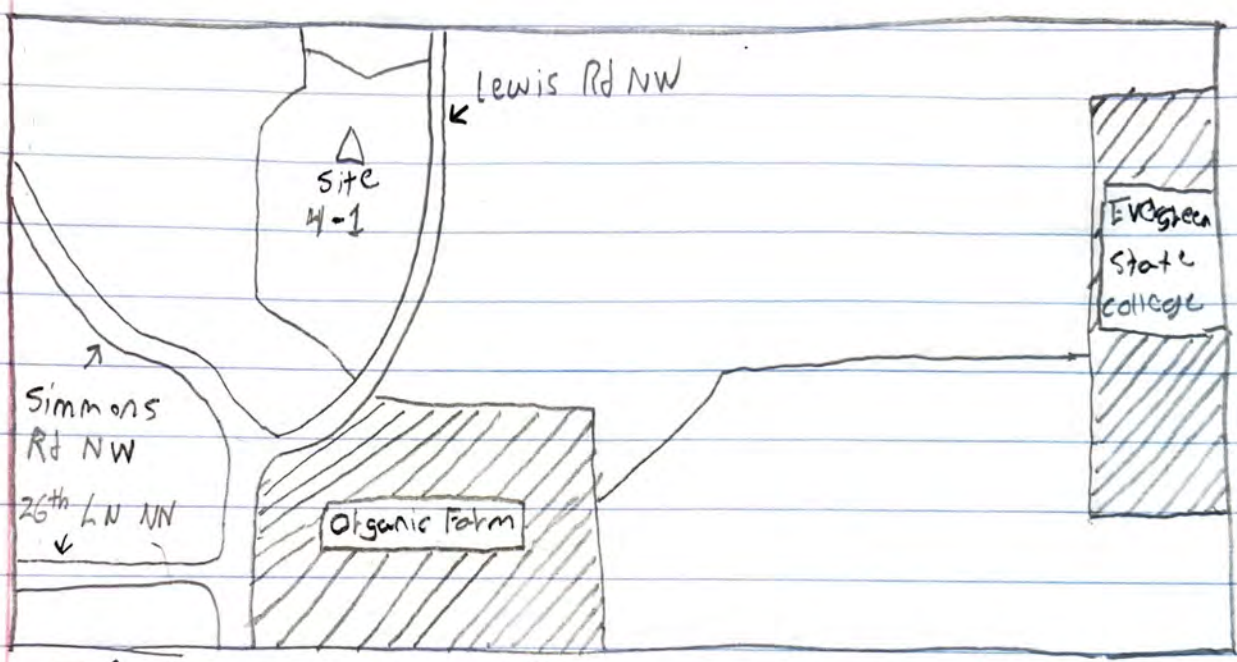
Week 1 climate and site characterization

1

Isaac Kleinetsud

4/08/2023 Start: 10:30, End: 14:00

Location: Kiefer forest, Evergreen State College Olympia, Washington



= Roads — Foottrails ▨ Man made structures △ Kiefer plots

Habitat Information:

Site 4-1 is located inside the Kiefer forest. In an area primarily dominated by Douglas-fir. The understory is dense and primarily made of sword fern with a few pockets of salal. The

Climate Information:

Temperature: 47°F

Wind: 1 Beufort scale

Sky: 5 Burcau code

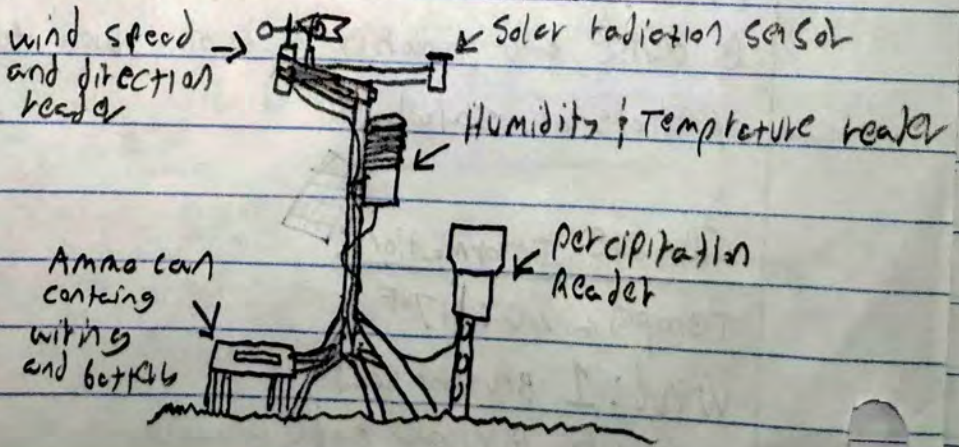
Percipitation:

Data collected:

Site 4-1 was found to have a 1% slop in both a 25° NE angle as well as 50° NE. This means the soil is Alder wood gravely sandly loam.

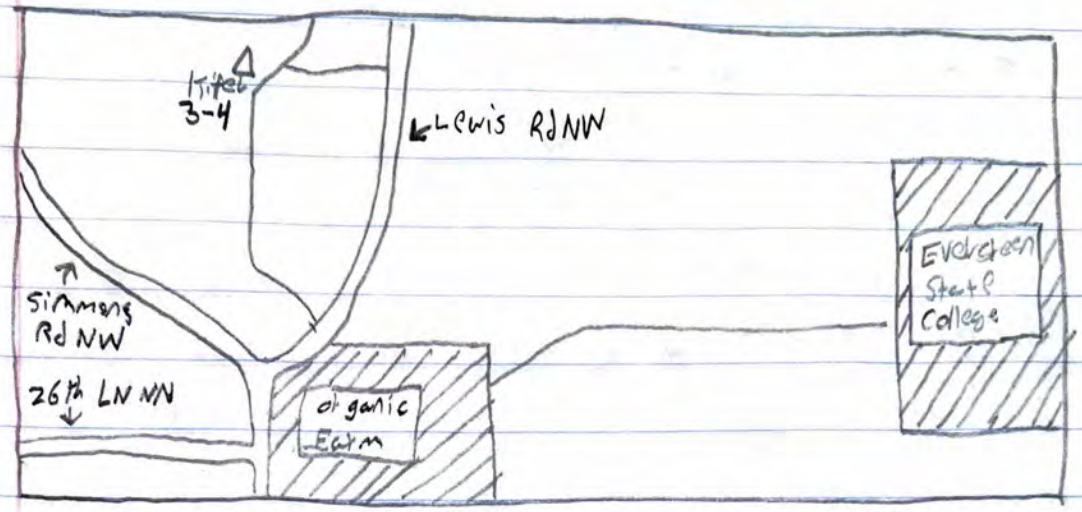
Narrative:

- We disassembled a cambell weather station and discussed what each part did
- Then reassembled the station after cleaning some part and rewired the station
- some sensors were operational while the humidity and pressure was left not working.
- We observed two HOBO weather systems, and compared and contrast them to the cambell systems.
- We entered Kiffer forest and used a clinometer to determine slope in plot 4.1 in order to find what the plots soil composition was using Data from USDA web soil survey site.



Isaac Klenetsky Week 2 Measuring Trees
04/11/2023 Start: 13:00 End: 14:21

Location: Kiter forest, Evergreen State college Olympia, Washington



= road — Foot Trail ▨ Man made structures Δ Kiter plots

Habitat Information:

Site 3-4 is located inside the Kiter forest in a section Dominated by Big leaf maple. The understory is fairly dense. dominated by sword fern and Salal.

Climate Information:

Temperature: 52°F
wind: 0 Beaufort scale
sky: 0 Bureau code
percipitation: 0 inches

Data collection:
Site 3-4

- K1083

Species: Douglas-Fir
Diameter: 70cm
Height: 82.60 inches

- K716

Species: Western Hemlock
Diameter: 50.70cm
Height: 95.20 inches

- K1644

Species: Red Alder
Diameter: 40.60cm
Height: 84.00 inches

- K812

Species: Red Alder
Diameter: 76.50cm
Height: 117.20 inches

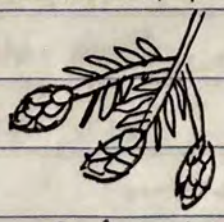
- K 2446

Species: Western Red Cedar
Diameter: 36.50 cm
Height: 47.20 inches

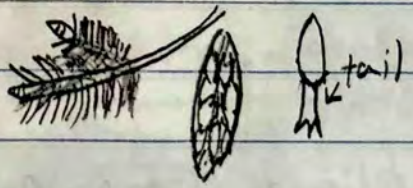
Narrative:

My group and I used a clinometer and DHA-tape to measure both the diameter and height of five trees. We used the already nailed tags as the breast height marker. Afterwards we would use the tape measure to stand at 10m and use the clinometer to measure the angle we could observe the top of the tree. This gave us the trees height. During this process we learned that choosing your direction to measure the point in which you will use the clinometer is important. Using the collected data we can now categorise this site and make some assumption about it. We were also shown how to collect a plug from a tree using a increment borer, and how to use the prism method to determine basal area. No data was collected with these methods though.

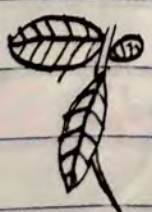
Western Hemlock



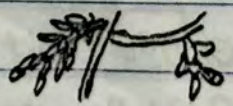
Douglas-Fir



Red Alder



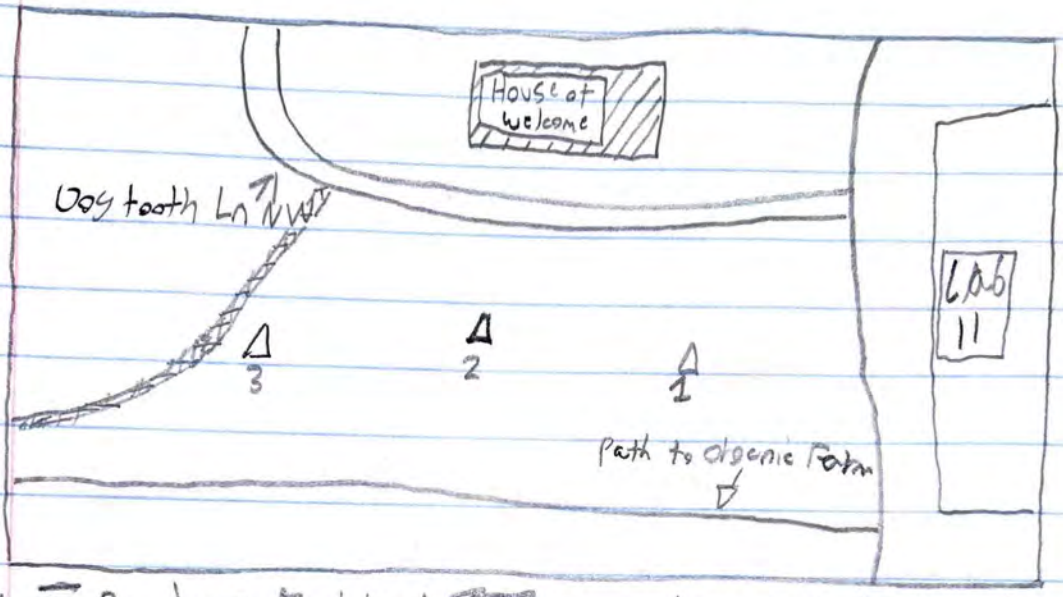
Western Red Cedar



week 2

Isaac Kilmetsky Audiomoths & Trophy Cams
4/12/2023 Start: End: 12:00

Location: Forest behind Lab II, Evergreen State college Olympia, Washington



Stream = Road — Foot trail ▨ man made structure Δ Audio and cam site

Habitat Information:

Site 1-3 are located in the forest behind Lab II. These forest are dominated by Douglas-Fir. The understory is very dense with mostly sword fern, Salal, and Huckleberry. Site 3 is next to a small stream.

Climate Information:

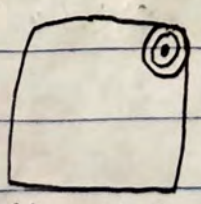
Temperature: 51°F
Wind: 0 Beaufort Scale
Sky: 0 Oktas code
percipitation: 0 inches

Data Collected:

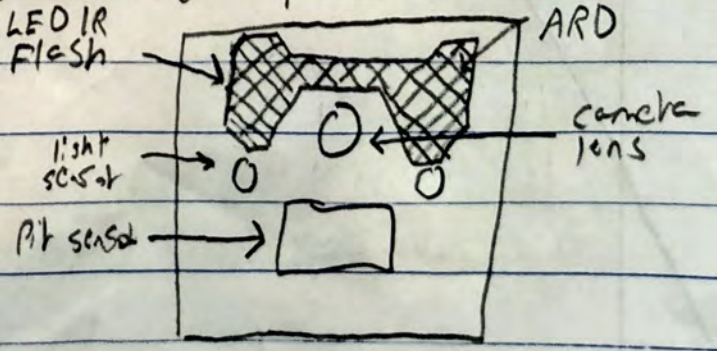
- site 1 wasn't able to observe any organisms on video. The Audiograph did pick up a wilson warbler coordinates: 47.0718 N, -122.9797 W
- site 2 was also not able to pick up any organisms on the trophy cam. The Audio graph picked up the same birds as site 1.
coordinates: 47.0717 N, -122.9799 W
- site 3 was also not able to pick up any organisms. The Audiograph was unable to pick up any audio.
coordinates: 47.0716 N, -122.9801 W

Narrative:

After entering the forest we set up 3 pairs of trophy cams and audiomoths in order to practise setting them up for following studies. we put cams 1 & 2 at low levels and cam 3 at a higher spot angled down. we weren't able to observe anything on cams but site 1 & 2 did pick up several species of birds using the audiomoths. placment and angling is very important for both devices.



Audiomoths

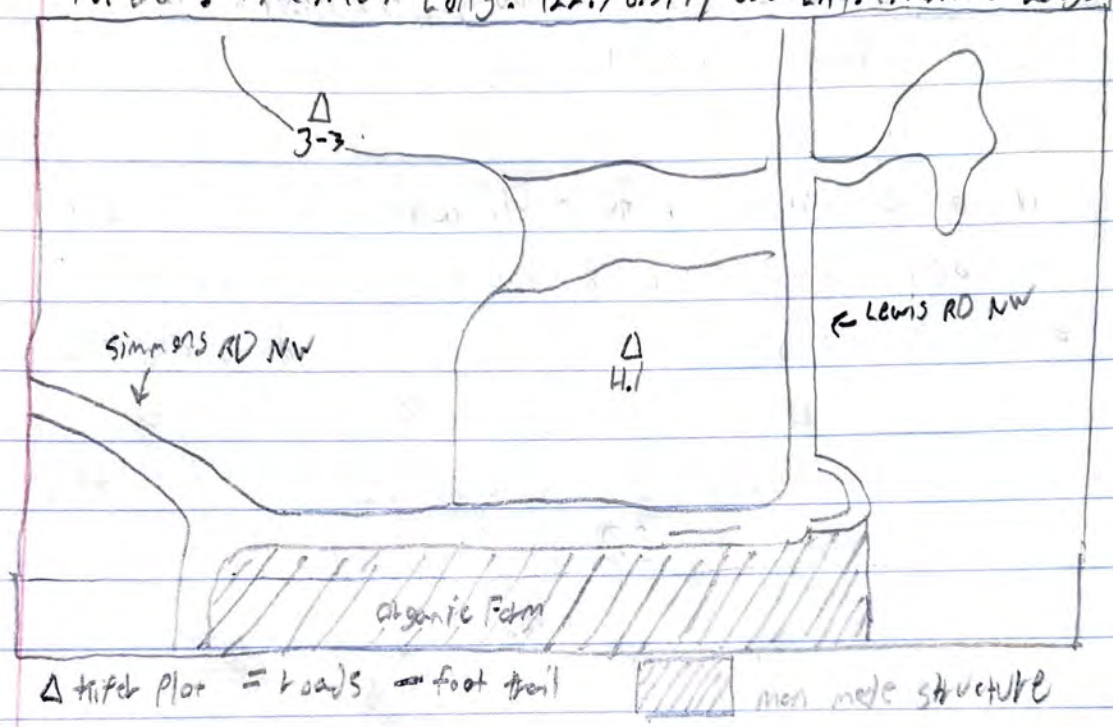


Isaac Klenetsky Week 2 Habitat Datasheet

4/13/2023 Start: 9:30, End: 13:30

Location: Kifer forest, Evergreen state college, olympia, WA

4.1 Lat: 47.07.164 Long: -122.98.917 / 3.3 LAT: 47.07.342 Long: -122.98.917



Habitat Information:

Kifer plot 4.1 is located in a primarily PSME dominated plot. It has a very dense understory with mostly sword fer and some salal. 3.3 is ACMA dominated. The understory is nearly all sword fern but less dense than 4.1.

Climate Information:

Temperature: 49°F

Wind: 1 Beaufort scale, very slight breeze

Sky: 5 Bureau code, cloudy scale some rain

Data collected:

Site 4.1 • Lat: 47.09164 Long: -122.98.760

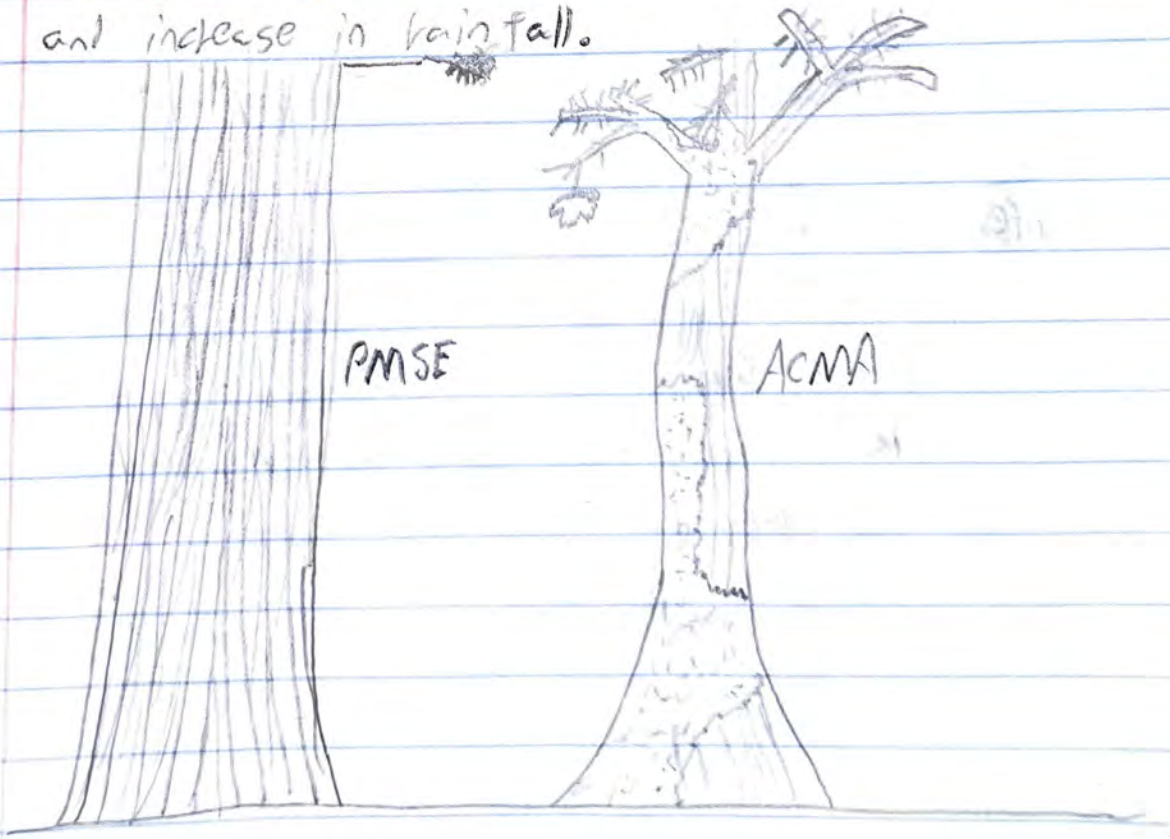
• Elevation 7m • slope 1% • Habitat 1 disc PMSE

Site 3.3 • Lat: 47.07.342 Long: -122.98.917

• Elevation 69m • slope °/o • Habitat 1 disc ACMA

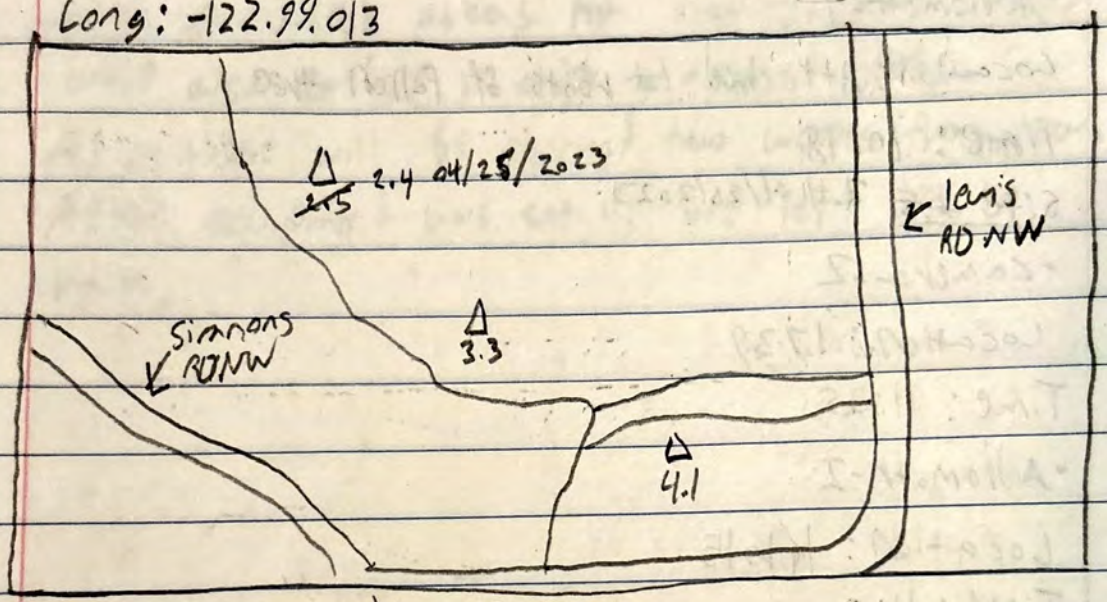
Narrative:

my group visited sites 4.1 and 3.3, in order to get familiar with their location. while also filling out the start of our data sheets. To do this we used GPS to find Lat: Long and elevation. Clinometers were used to find slope. After arriving at 3.3 we decided to stop due to and increase in rainfall.



Isaac Klemetsrud week 3 · Audio, camera, data sheets
4/18/2023 Start: 10:02 End: 13:00

Location: Kifer forest, Evergreen state college olympia, WA, 4.1 Lat: 47.07.164 Long: -122.98.769, 2.4 04/26/2023 ~~2.5~~ Lat: 47.07.471 Long: -122.98.977, 1.4 Lat: 47.07628 Long: -122.99.013



△ Kifer plots = roads — foot path

Habitat Information: *2.5 turned out to be 2.4 04/26/2023
Kifer plot 4.1, ~~2.5~~ 2.4, and 1.4 are all PMSF dominated. 4.1 and ~~2.5~~ 2.4 have dense understories dominated by sword fern. Plot 1.4 has a steep slop resulting in the Eastern portion being almost bare while the western is dense sword fern.

Climate Information:
Temperature: 41° F
wind: 2 Beufort scale, breeze branches shaking
Sky: 8 Bureau code, showers entire time, dark clouds

Data collection:

Site 4.1

- Camera-1

Location: K508

Time: 10:14

- Audiomoth-1

Location: Attached to roots of fallen tree

Time: 10:18

Site ~~2.5~~ 2.4 4/26/2023

- camera-2

Location: 1739

Time: 11:25

- Audiomoth-2

Location: K1015

Time: 11:12

Site 1.4

- camera-3

Location: K272

Time: 12:17

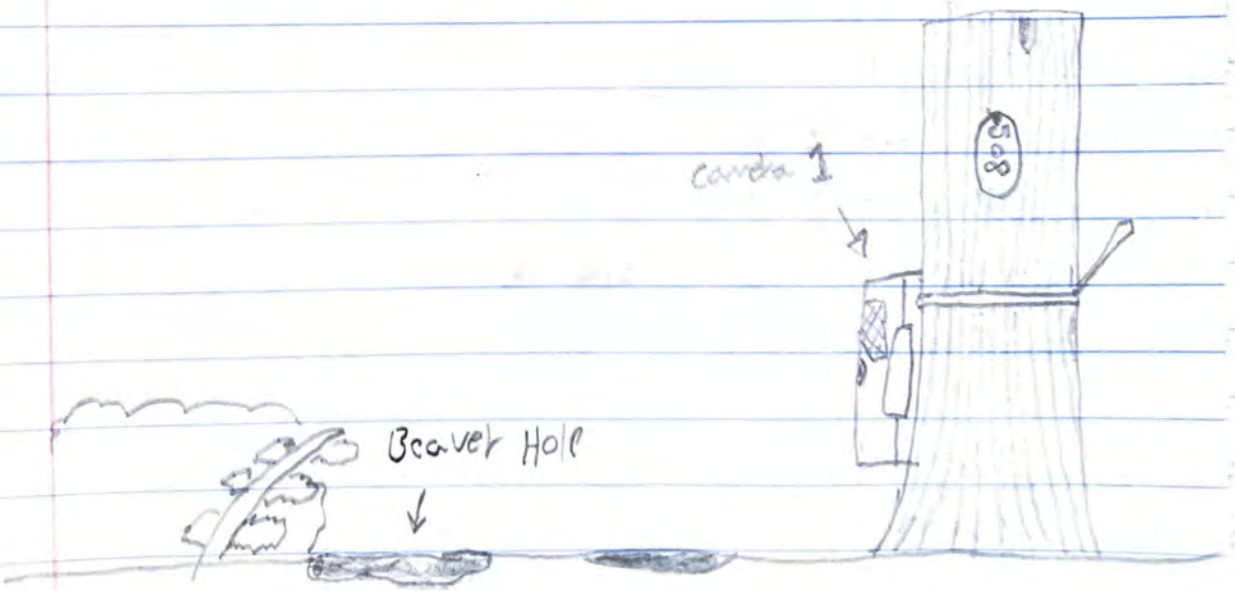
- Audiomoth-3

Location:

Time: 12:15

Narrative:

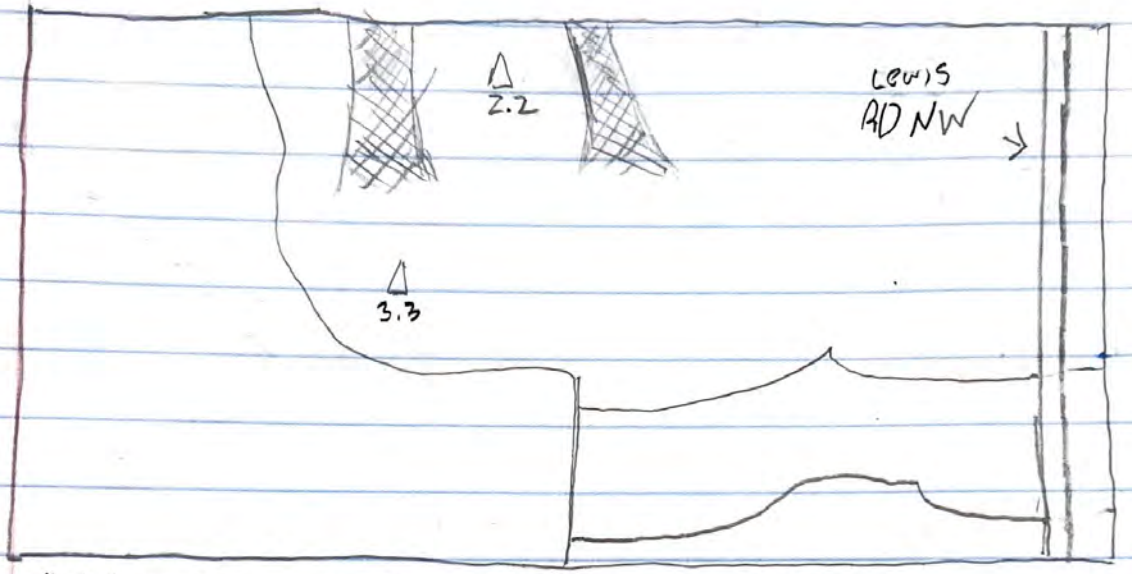
We visited three sites in order to set up cameras and audio capture equipment to observe wildlife. cameras were set up facing animal signs as priority. Audiomoths were set in high up visible areas for clarity. Three boards were also set up in order to attract Herbs. All of these will be checked two weeks from now. After equipment was set up we left due to rain.



13

Isaac Kilmer-Strud Week 3 Tree: Basal Data Sheet
4/20/2023 Start: 9:30 End: 13:30

Location: Kiffer Forest, Evergreen State college
Olympia, WA 2.2 LAT: 47.07.471 Long: -122.98.823
3.3 LAT: 47.07.342 Long: -122.98.917



△ Kiffer plots = roads — foot trails ▨ Draw

Habitat Information:
site 2.2 is PSME dominant but largly mixed. under story is mostly dense with a few open areas due to high slope. Site 3.3 is ACMA dominant with dense understory made of sword fern

Climate Information:
Temperature: 43°F
wind: 2 Beaufort Scale, Slight breeze, branch shakes
sky: 8 Bureau code, showers entire time, Dark cloud

Data collected:

Site 3.3 Prism count 14

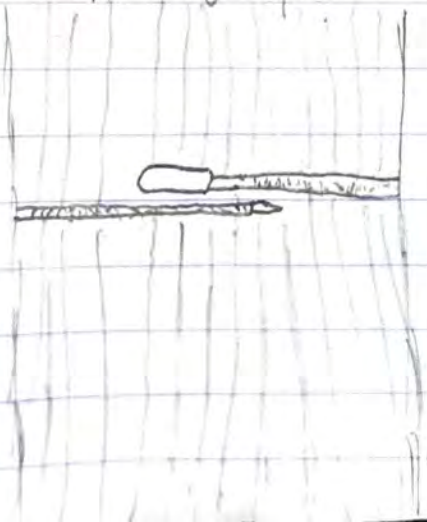
Tag #	species	DBH	Top°	bottom	Distance	% live crown	IN/out
1692	PMSF	103.65	48	1	32.30	37	IN
1202	ACMA	66.35	60	5	21.00	55	IN
302	W.RED	35.10	30	2	19.40	6	IN

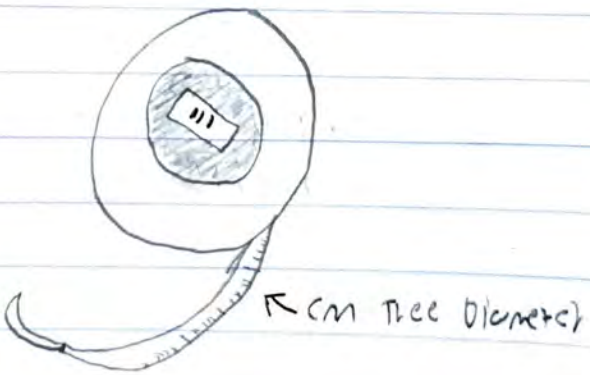
Site 2.2 Prism count 21

Tag #	Species	DBH	Top°	bottom	Distance	% live	IN/OUT
2728	PMSF	81.00	58	0	24	49	IN
2737	ACMA	68.00	50	25	24	39	IN
2853	W. RED	39.20	43	8	16.8	3	IN

Narrative:

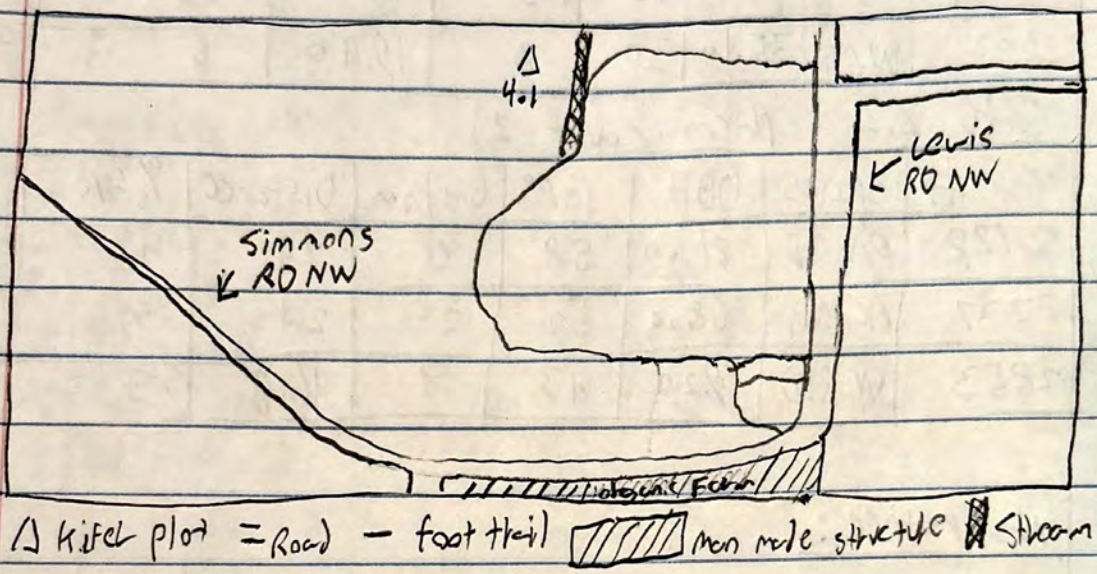
We split groups in order to measure our plots quicker me and sage took 3.3 and 2.2. we used a DBH tape to measure all trees that were determined to be inside our plots using a prism with the 10 sighting measurment. We also completed sapling counts and species counts in our plots.





Isaac Klemetsrud week 3 Tree ¾ Basal Area
4/21/2023 start: 12:30 END: 13:45

Location: Kifer forest, Evergreen State college Olympia, WA 1.4 LAT: 47.07.628 Long: -122.99.013



Δ Kifer plot = Road – foot trail man made structure Stream

Habitat Information:

1.4 is PMSF dominant but has the lowest amount of trees of all plots. This is due to the slop being 38% from the west to the East. understory is made primarily of sword fern.

Climate Information:

Temperature: 50°F
Wind: 1 Beu fort scale, very slight breeze
Sky: 1 Bureau code, partly cloudy

Data collected:

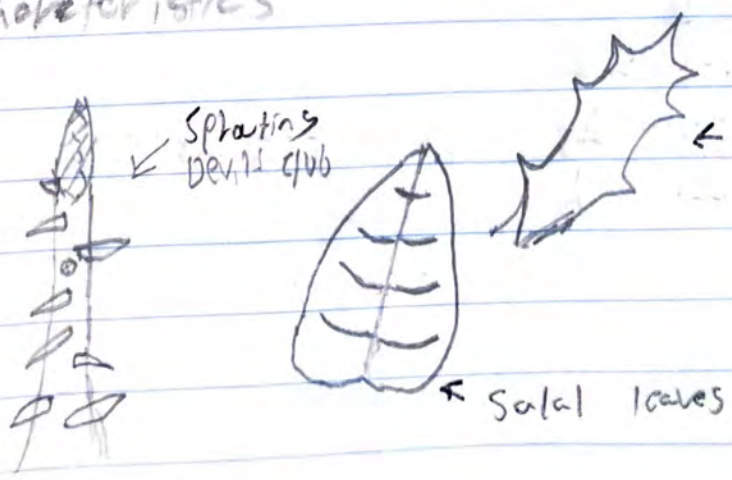
Tag#	species	quadrant	DBH	Top°	Bottom	Distance m	Live	IN/out
317	PSME	SW	120.8	59	12	33.1	37	IN
90	ACMA	SE	39.1	51	18	21.7	34	IN
259	W.RED	SW	21.1	29	12	11.3	1:	IN

Sapling count

ACMA	1
TsHtPL	3
COCO	29
OPHO	50+
VAPA	3
Bald Hip Rose	3

Narrative:

Sage and I took sapling counts and measured tree height and basal area for plot 1.4. we used DBH tape, tape measures, Prisms, and clinometer to determine tree characteristics



Isaac Klemetsrud week 4 point counts/playback 0

04/25/2023 start: 9:30 End: 12:30

Location: Kiifer forest, Evergreen State College Olympia, WA

4.1 LAT: 47.07.164, Long: -122.98.760

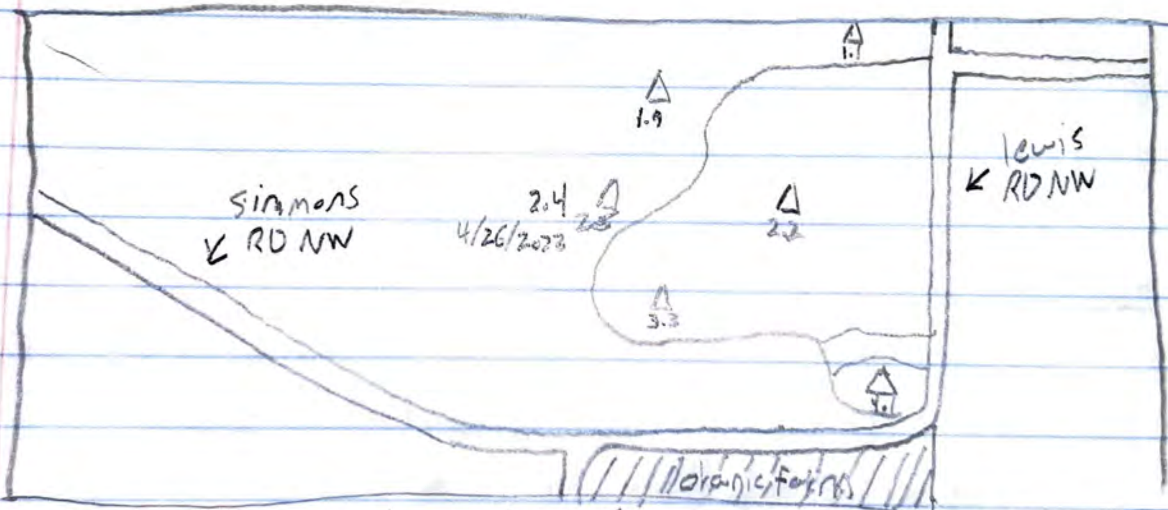
3.3 LAT: 47.07.342, Long: -122.98.917

2.4 4/26/2023 ~~2.5~~ LAT: 47.07.471, Long: -122.98.977

2.2 LAT: 47.07.493, Long: -122.98.823

1.4 LAT: 47.07.628, Long: -122.98.013

1.1 LAT: 47.07.649, Long: -122.98.745



△ Kiifer plots = road — foot path ▨ man made structure

Habitat Information:

Kiifer plots 1.1, 2.2, 3.3 are ACMA dominante. while plots 1.4, 2.4, 4.1 are PSME dominante. All of them have an understory of mostly sword fern. 1.4 is stream adjacent and half the plot is deep mud.

Climate Information:

Temperature: 55
Wind: 1 Beaufort scale, slight breeze at times
Sky: 0 Bureau code, blue beautiful sky

Data collected:

Plot #	species observed	Playback
4.1	spotted Towhee, chestnut-backed chickadee Pacific wren, Dark eyed-Junko, American robin Red-breasted Nuthatch, Townsend warbler	spotted Towhee
3.3	Crow, Pacific wren, spotted towhee	Song sparrow
2.4	Pacific wren, chestnut backed chickadee Black-throated Gray warbler	Pacific wren
2.2	spotted towhee, Song sparrow chestnut-backed chickadee, Pacific wren Red-breasted Nuthatch	spotted Towhee
1.4	American Robin, Pacific wren	Song sparrow
1.1	spotted towhee, Song sparrow, dark-eyed junko white-throated sparrow, chestnut-backed chickadee	Pacific wren

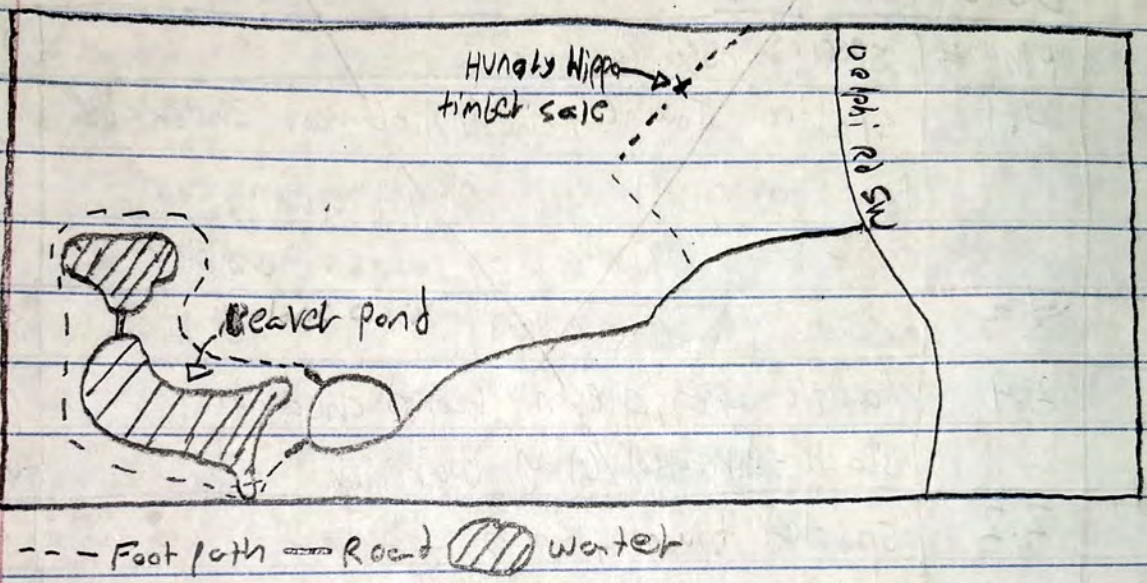
Narrative:

we traveled to each site and took point counts using playbacks to entice birds. The most effective birdcall was spotted Towhee. Not only did it get the most birds responding it even drew in several within a few feet of us.

1.9

Isaac Klemetsrud week 5 mclane creek forestry Tour
06/04/2023 Start: 9:47 End: 14:30

Location: mclane creek Nature trail, olympia, WA
Hungry Hippo timber sale Lat: 47.004402, Long: -123.001365
Beaver Pond Lat: 47.001437, Long: -123.005882



Habitat Information:
Capital Forest is PSME dominate with thick understory off trail. Hungry Hippo timber sale is almost devoid of trees besides patches of 3-6 trees. The understory is also thick but made of diffrent species in comparison to the rest of Capital Forest. Beaver pond is surrounded by PSME dominate forest. also ringed by reeds and Typha plants.

Climate

Climate Information:

Temperature: 52°F
wind: 1 Beufort scale, very slight breeze
sky: 2 Bureau code, overcast all day, drizzled for first 30min

Data collected:

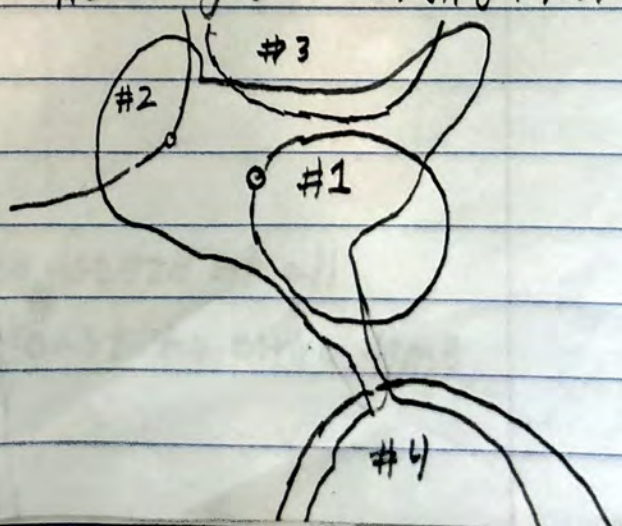
- capital forest basal area - 160, cruzal 10x used
- Hungry Hippo timber sale basal area - 190, stump DBH used

species Identified

Capital Forest	Hungry Hippo timber sale
Thimble berry	Scotch broom
Salmon berry	Thimble berry
lady fern	Grass
Bleeding Heart	Curly dock
path finder	rumex
Indian plum	
inside out flower	
Pacific water leaf	
elder berry	

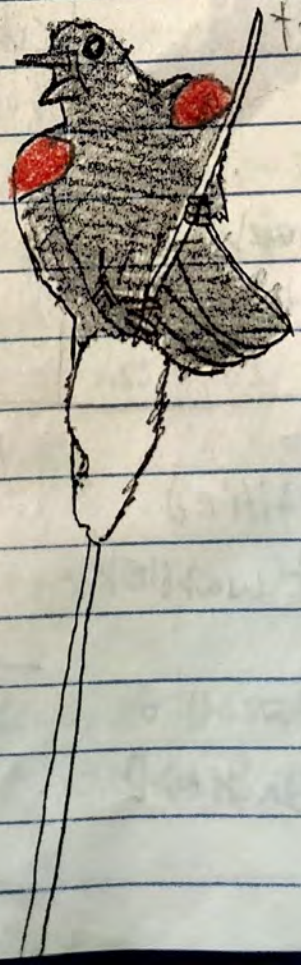
Beaver pond
species Identified
- yellow throat warbler
- Tohee
- song sparrow
- Red winged black bird

Red winged black bird territory



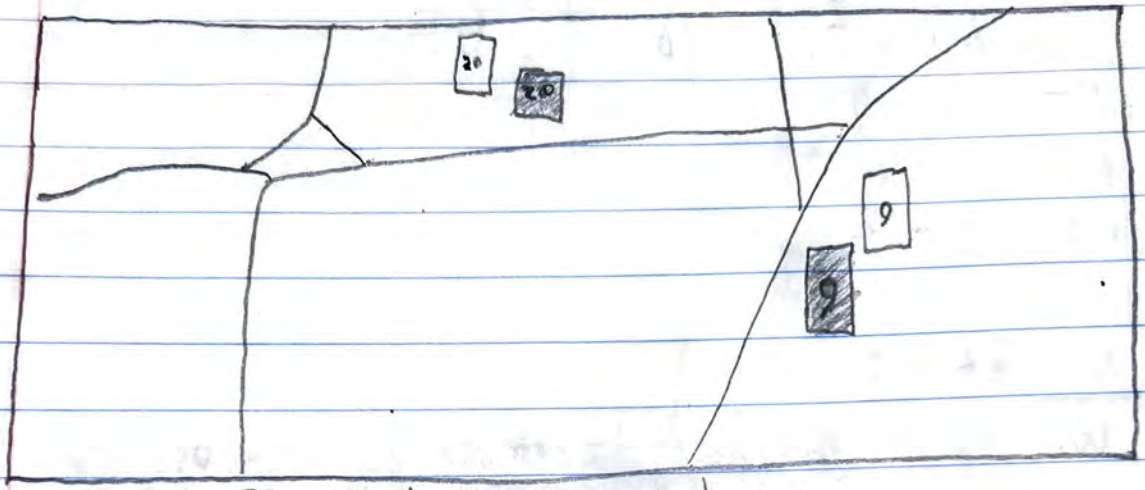
Narrative:

we started the day at Capitol State Forest Forestry Trailhead. After stopping briefly to discuss the structure of the forest and its history we proceeded to the location of Hungry Hippos timber took place. we calculated the basal area for what was cut and what still remained. we found the estimated basal area that was taken for the sale to be lower than what we observed. Afterwards we compare understory species. At Beaver pond we identified species of birds and tried to map Redwing Blackbird territories. Several were in the area and a consensus concluded that territories 1 & 2 I listed definatly existed.



Isaac Klemetsrud week 6 prairie Field Day practice
05/9/2023 Start: 10:48 End: 14:00

Location: Johnson Prairie, JBLM, Lakewood, WA
Plot 9 Unburned Lat: 46.55490 Long: -122.44012



— Road ☐ Unburned plot ▩ Burned plot

Habitat Information:
Johnson prairie is mostly grassland with sparse trees found in it. The soil type is a mixture of spanway and everett. The prairie is hinged by PSME forests. The grasslands are either flat or gently rolling hills.

Climate Information:
Temperature: 65°F
Wind: 0 Beaufort Scale, no breeze at all
Sky: 1 Bureau code, overcast the entire time

Data collected:

- Practice line transect with distance & angle (10am)

113m - 20°, 86m - 10°, 62.5m - 40°, 228m - 40°, 162m - 30°

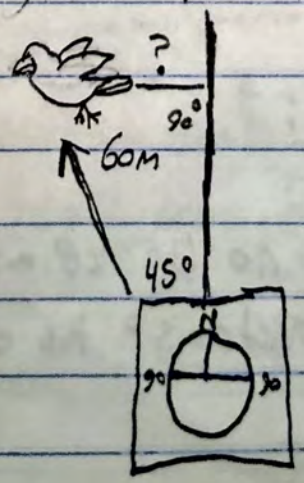
- Plot 9 unburned practice whitaker plot

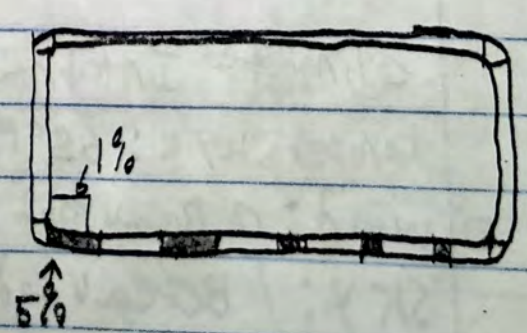
ANTODO - 3
CAMQUA - 2
FESROE - 4
HYPER - 1
HYPRAD - 2

code	0	1	2	3	4	5	6	7
Bin	0	1-2%	2-5%	5-10%	10-25%	25-50%	50-75%	75-100%

Narrative:

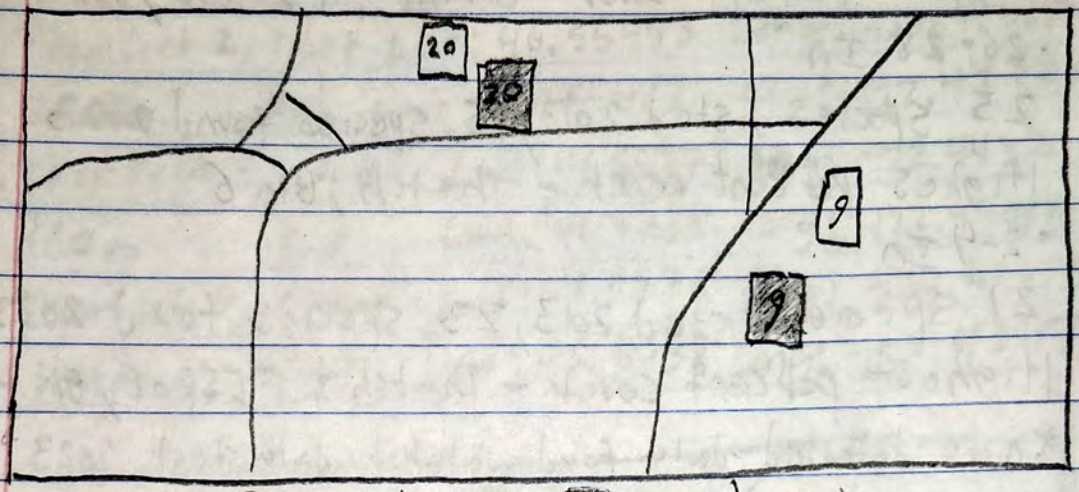
We spent the day practicing our methods for measuring species abundance and richness for the prairies whitaker plots. Along with performing line transects for bird observation. while working in pairs we will take species counts and try to estimate distance from our transect at the same time. This prairie is one of the most hate environments in washington and has only persisted due to the base shelling the area in the past.





Isaac Klematsud week 6 Prairie Field Day 1
05/10/2023 Start: 10:15 End: 14:00

Location: Johson Prairie, JBLM, Lakewood, WA
Plot 9 unburned Lat: 46.55490, Long: -122.44012



- Road ☐ unburned plot ■ burned plot

Habitat Information:
Plot 9 unburned last perscibed burn was 2010. It sits on flat grassland with Spanway soil found in the plot.

Climate Information:
Temperature: 66°F
Wind: 2 Beaufort scale, slight breeze felt occasionaly
Sky: 9 Bureau code, no clouds the entire day

Data collected:

9 unburned

- 1.7m - 1.9m outside

33 species listed 2013, 25 species found 2023

Highest percent cover - Ground & FESROE, Bin 4

- 26-28 In

25 species listed 2013, 15 species found 2023

Highes percent cover - Thatch, Bin 6

- 2-4 In

21 species listed 2013, 23 species found 2023

Highest percent cover - Thatch & FESROE, Bin 4

*more detailed data found whitaker data sheet 2023

Narrative:

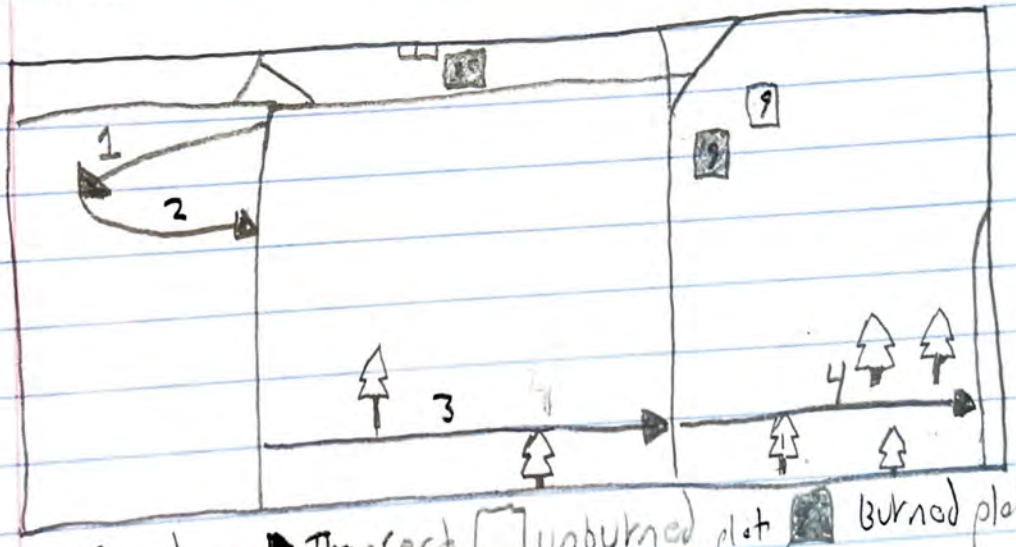
we returned to plot 9 unburned and continued all whitaker plots each group was able to complete 3 subplots during the day. The biggest time sink was intialy identifing species in order to determine percent coverage. Grasses proved to be the most difficult and most abunda... The bin system was intuitive and extremely helpful.

Camas flower

Festuca Roemeri

Isaac Klemetsrud Week 6 Prairie field day 2
05/11/2023 Start: 10:23 End: 14:36

Location: Johson Prairie, JBLM, Lakewood, WA
Transect 1, start Lat: 46.5503 Long: -122.44333
250m END Lat: 46.55453 Long: -122.44527
Transect 2, start Lat: 46.55453 Long: -122.44527
257m End Lat: 46.55487 Long: -122.44333
Transect 3, start Lat: 46.55382 Long: -122.4432
160m End Lat: 46.5538 Long: -122.44093
Transect 4, start Lat: 46.5538 Long: -122.44093
194m End Lat: 46.5538 Long: -122.43917



— Road → Transect ☐ unburned plot ▩ Burned plot
Lone trees

Habitat Information:
Transect 1 & 2 went through a sparse PSME forest. With gentle rolling hills. Understory was grass & burnt scotchbroom. Transect 3 & 4 went across open grassland with

Climate Information:

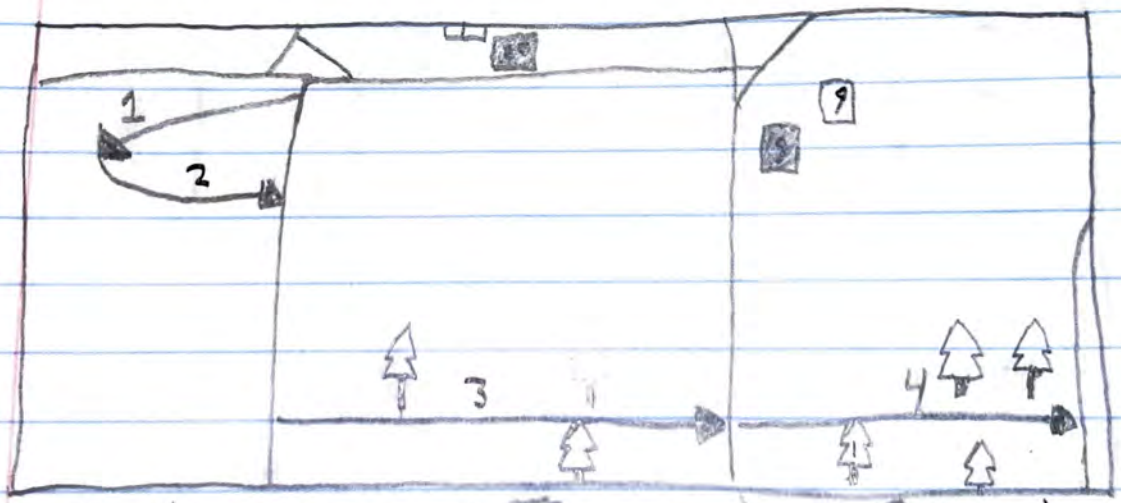
Temperature:
wind: 1 Beafort scale, slight breeze occasionally
sky: 0 Bureau code, Not a cloud in the sky

Data collected:

Transect #	species	total count	angle°	furthest distance(m)
1	Violet green swallow	2	50	35
1	s. swallow	3	60	53.7
1	white crown sparrow	4	50	16
1	Bird	3	35	23.8
2	American Robin	3	10	36
2	white crown sparrow	1	30	30.9
2	s. swallow	1	90	20.1
2	Bird	10	20	54.9
3	swallow	6	35	115.7
3	purple martin	1	0	110
3	white crown sparrow	1	10	50.7
3	Raptor	1	80	160
3	Bird	3	0	16.2
4	white crown sparrow	8	30	60.2
4	olive flycatcher	1	90	16.3
4	chick	1	40	13.8

Isaac Klemetsrud Week 6 Prairie field day 2
05/11/2023 Start: 10:23 End: 14:36

Location: Johsan Prairie, JBLM, Lakewood, WA
Transect 1, start Lat: 46.5503 Long: -122.44333
250m END Lat: 46.55453 Long: -122.44527
Transect 2, start Lat: 46.55453 Long: -122.44527
257m End Lat: 46.55487 Long: -122.44333
Transect 3, start Lat: 46.55382 Long: -122.4432
160m End Lat: 46.5538 Long: -122.44093
Transect 4, start Lat: 46.5538 Long: -122.44093
194m End Lat: 46.5538 Long: -122.43917



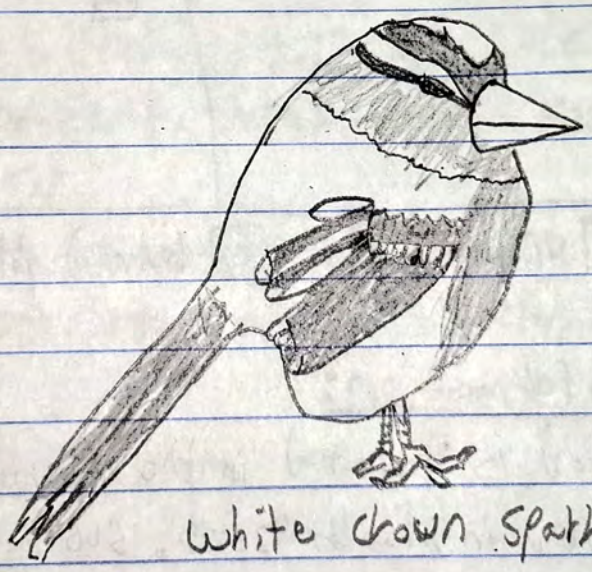
Road → Transect ☐ unburned plot ■ burned plot
Lone trees

Habitat Information:

Transect 1 & 2 went through a sparse PSME forest. With gentle rolling hills. Understory was grass & burnt scotchbroom. Transect 3 & 4 went across open grassland with

Narrative:

Cody and myself paired up for the bird observation. our first transect started well. At the end we were confused on how much to offset before starting our second transect so we just continued from our end point. Birds proved to be difficult to identify due to us only observing them for a few seconds some times. Transects 3 & 4 were smoother due in equal parts to us becoming more familiar with the methods as our change in terrain giving us more time to observe our quarry.

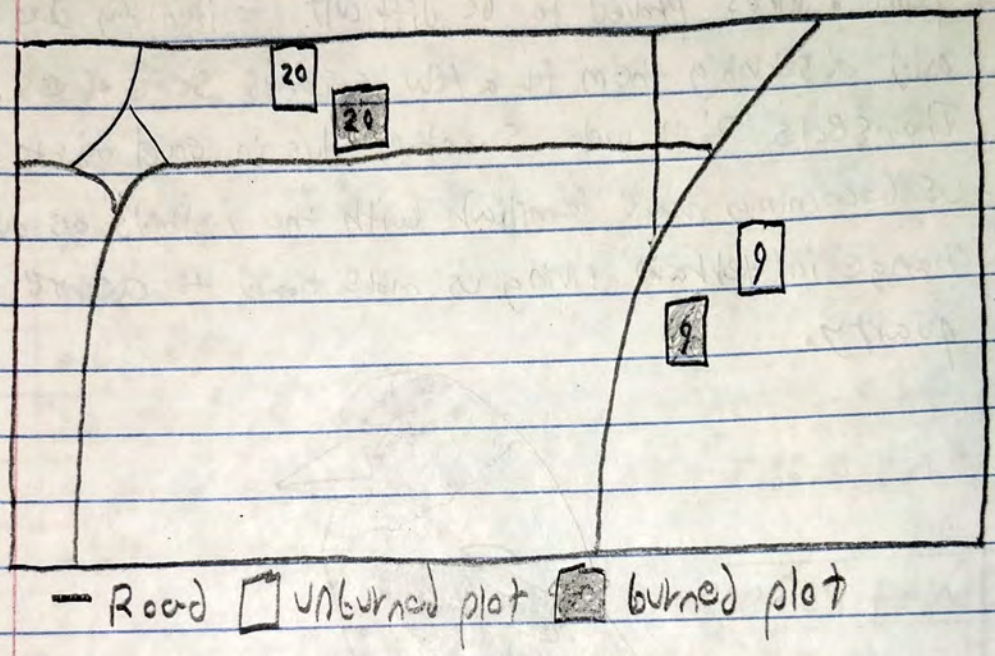


White crown Sparrow

29

Isaac Klemetsrud week 7 Prairie field day 3
05/16/2023 Start: 10:15 End: 14:30

Location: Johnson, Prairie, JBLM, Lakewood, WA
20 burned, LAT: 46.55583 Long: -122.44168
9 burned, LAT: 46.55453 Long: -122.44025



23

Habitat Information:
plot 20 burned is located in the Prairies grasslands it was last burned in March 2023. subsiquently it has more open ground than surrounding areas. It's soil type is everett. Plot 9 burned was burned in November 2023 it has substancially more open ground due to the intensity of the fire. It's soil type is spanway.

Climate Information:

Temperature:
wind: 1 Beaufort scale, slight breeze at times
SKY: 2 Bureau codes, cloudy for most of the day

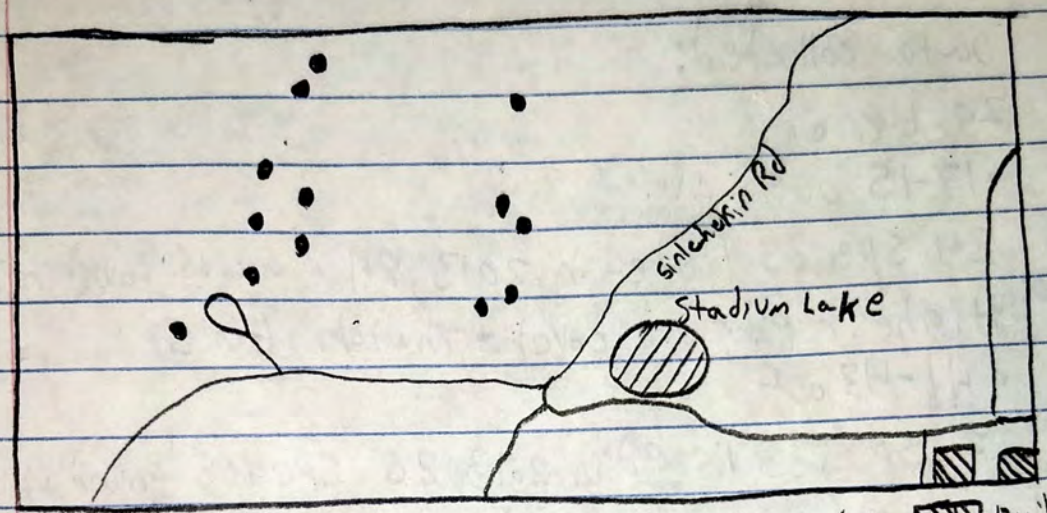
Data collected:
20 burned
• 17-15 out
24 species listed in 2013, 24 species found in 2023
Highest percent cover - Thatch, Bin 5
• 41-43 out
22 species listed in 2013, 26 species found in 2023
Highest percent cover - moss & FESROE, Bin 4
• 37-39 IN
27 species listed in 2013, 24 species found in 2023
Highest percent cover - Thatch, Bin 4
9 Burned
• 8-10 out
14 species listed in 2013, 14 species found in 2023
Highest percent cover - Ground, Bin 5

Narrative:
Progress on burned plots was much faster due to familiarity with the methods being used, species recongnition, and burned patches having less biomass. Although 20 did have higher richness to it Un burned counterpart

3)

Isaac Klemetsrud week 8 Sinlahekin Collection Day 1
05/23/2023 Start: 10:30 End: 13:00

Location: Sinlahekin wildlife Area, Loomis, WA
permanent plots 1-13



- Road body of water • permant plots Buildings

Habitat Information:
Plots 1-13 are located on very steep hills to the west of Sinlahekin Rd. The suttounding forest is PIPO dominant its catagorized as a dry forest. Plots 1-3 are on ewall soil, with the remaining located on Leiko soil type.

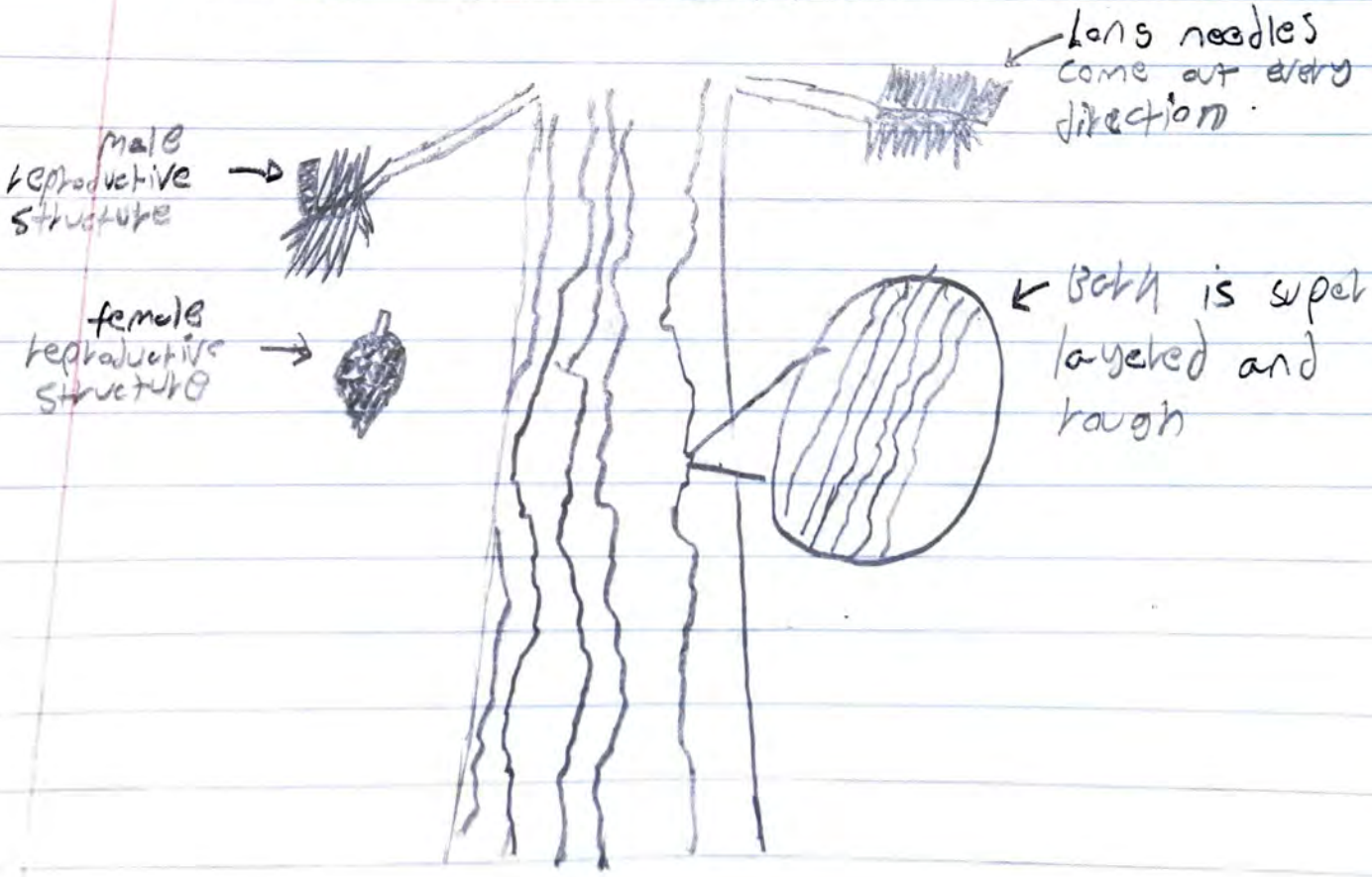
Climate Information:
Temperature: 65°F
Wind: 1 Beaufort Scale, slight breeze at times
Sky: 1 Bureau code, some clouds in the sky

Data collected:

- Plot 2, Seedlings = 4 PIPO, 1 PSME
- Plot 4, Saplings = 2 PSME
- All other plots contained no saplings or seedlings
- Cam 6 set up across bridge in thicket

Narrative:

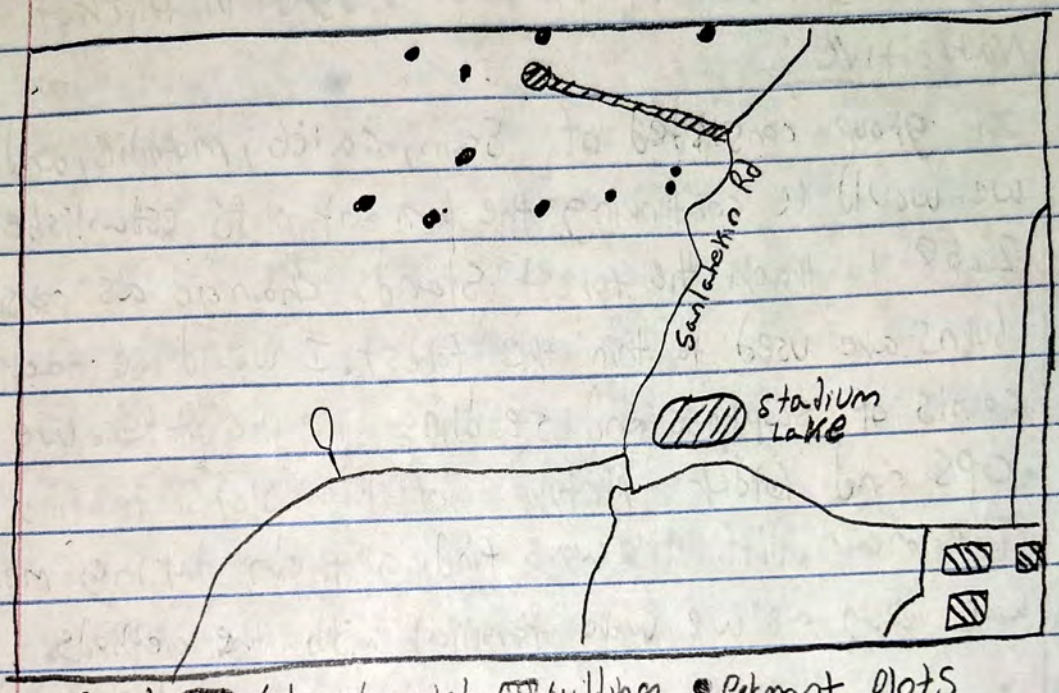
Our group consisted of Sam, Caleb, Maddie, and me. We would be continuing the permant plots established in 2008 to track the forest stands change as perscribed burns are used to thin the forest. I would be tracking counts of saplings and seedling in the plots. We used GPS and older pictures of the plots to find them. The main difficulty was finding them taking measurments was easy as we were familiar with the methods.



33

Isaac Klenetsky Week 8 Sinlahekin collection Day 2 1
05/24/2023 Start: 10:00 End: 17:00

Location: Sinlahekin wildlife Area, Loomis, WA
permant plots 14-23



Habitat Information:
Plots 14-23 are located on steep hills to the west sanlahekin Rd. The surrounding forest is PIPO dominant its catergorized as a dry forest. The soil type is Leiter. and

Climate Information:
Temperature: 70°F
wind: 1 Beaufort scale, Sight breeze at times
sky: 1 Bureau code, some clouds in sky

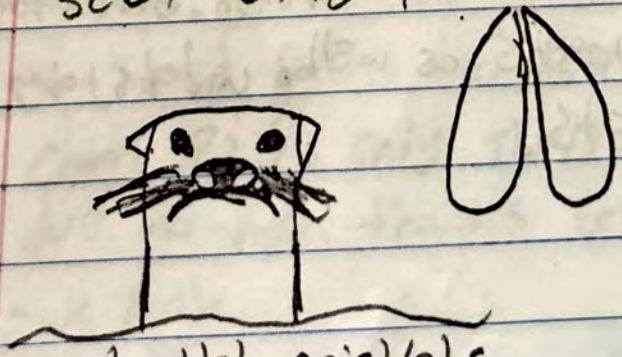
Data collected:

permant plots
- plot 13, seedlings = 3 PSME
- plot 17, saplings = 7 PIPO

Deer transect 2
- 15 signs of scat, highest concentration 22 with 4
- cam 8, 12:57 set up, at site 18, facing game trail
- cam 9, 13:40 set up, at site 16, facing multiple game trail
- 2 deer spotted near site 23 on other side of hill

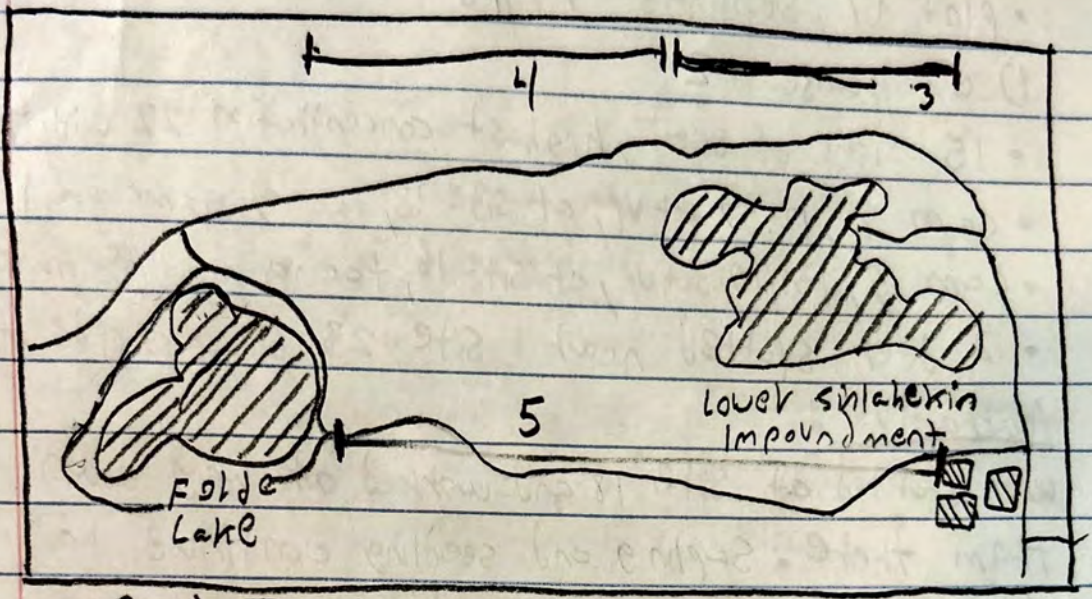
Narrative:

we started at site 18 and worked our way down from there. Sapling and seedling continue to be scarse. This is most likley due to burns happening and the enviornment being difficult for starters to establish themselves. I was able to find a lot of scat on this transect and 2 white tail deer right at the end. I dont have confidence in the cameras picking up anything due to only scat being found.



Isaac Hlemetskud week 8 Sanlahekin collection day 3
05/25/2023 Start: 8:00 End: 16:00

Location: Sinlahekin wild life area, Loomis, WA



Habitat Information:

Transect 3 & 4 took place in PIPO Dominant forests. the terrain is steep fingers and draws inbetween. Also sections crossed boulder slides with no vegitation growing. Transect 5 took place through grass lands, Aspen forests, and PIPO forests as well. understory was thick in both forests.

Climate Information:

Temperature:
Wind: 1 Beaufort scale, Slight breeze at times
Sky: 5 Burca code, it drizzled several times in the day

N

Data collected:

Transect 3, start 8:15, End 9:54
- 23 signs of scat

Transect 4, start 10:05, End 11:15
- 18 signs of scat

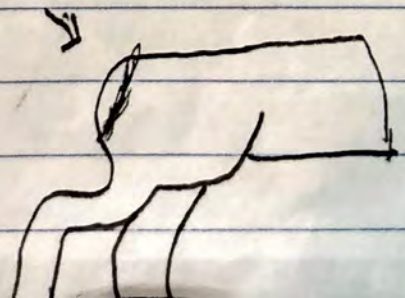
Transect 5, start 11:30 End 12:15
- 10 signs of scat
- 5 signs of tracks

Cam 6 retrived at 11:42
cam 8 retrived at 13:40
Cam 9 retrived at 13:26
cam 5 retrived at 11:35

Narrative:

I set out at 8:00 hoping to catch deer early in the morning. I went an opposite direction from the previous transects to cover more Area. only signs found were scat. Took several point counts during transect to see if deer might wander into visible areas. After becoming potelled with Forde lake decided to head back and pick up cam 5 & 6. After retrived cam 8 & 9. only think cam 6 will have anything due to deer tracks being found near by.

mule deer



white tailed deer