

over →

Lichen community sampling Lichen quadrats are each 10cm by 10cm

Date: 12-4-12 Location: un. 2 Measurers:

Tree: 22-02

Quadrat (cm above ground)	Total cover	Rough ness	Lichen
South 45-55			
South 80-90			
North 45-55			
North 80-90			

DBH (cm):

Bole circ (cm):

Tree height (m): 5.2

GPS: N 41° 08.342

W 111° 56.638

Elev: 1357

Canopy density: N: 20 W: 21 S: 6

E: 12

Core taken? YES

C10 SCS+ Trees: 5.3, 0.0 (K2+S),  
2.0 (K2+S), 3.1

Large trees: 19.8, 6.5, 2.7, 3.1

Lichen community sampling Lichen quadrats are each 10cm by 10cm

Date: ~~10/10~~ Location: ~~South~~ Measurers:

Tree: LL-24 10' South of B-83

paider Int nearby

Quadrat (cm above ground)	Total cover	% Roughness	Lichen
South 45-55	40	85	X. mont: 1.0 Cord: 0.25 Physa ascend: 1.0 P. mel (Brown-green Foliose): 1.5 X. gal: 2.0 Nut Licker: 69% Turd Gummer: 69%
South 80-90	35	90	X. gal: 2.0 X. mont: 0.75 Cord: 0.25 ASS muncher: 69% Little Black Bull: 0.01 Bung chewer: 69% Choed Licker: 67%
North 45-55	50	65	X. gal: 3.0 X. mont: 4.0 LEC. Brown: 0.25 C. Holo: 0.25 LEC Black/Rhno: 0.25 P. mel (Brown-green Foliose): 3.0 Cord: 0.25 green Foliose: 0.25 Unk. Physa: 0.25
North 80-90	50	70	X. gal: 3.0 P. mel (Brown-green Foliose): 4.0 unk. gray Foliose: 1.0 X. mont: 2.0 LEC. Brown: 0.25 Cord: 0.5 LEC Black/Rhno: 0.25

DBH (cm): 16.6

Bole circ (cm): 30.5

Tree height (m): 6.5

GPS: N 41° 08.331' W 111° 56.719'

Elev: 1370

Canopy density: N: 94 W: 63 S: 48 E: 96

Core taken? YES

Closest Trees: 0.5 (Hawthorn), 0.0 (Rhod), 1.9 (Willow) Large Trees: 4.0, 1.6, 2.5

2.7

2.7

Lichen community sampling Lichen quadrats are each 10cm by 10cm

Date: 12-4-12 Location: W. 1st Measurers:

Tree: LL-23

Quadrat (cm above ground)	Total cover	% Rough ness	Lichen
South 45-55	0.5	20	X. gal: 0.5
South 80-90	0.1	25	X. gal: 0.1
North 45-55	0.75	35	X. gal: 1.5 Cord: 0.1
North 80-90	0.05	5	X. gal: 0.05

DBH (cm): 7.0

Bole circ (cm): 31.5

Tree height (m): 5.2

GPS: N 41° 08.348 W 111° 56.729 Elev: 1368

Canopy density: N: 91 W: 96 S: 20 E: 27

Core taken? Yes

Closet Trees: 4.1, 2.0 (Khus), 3.0, 0.0 Large Trees: 4.1, 13, 3.0, 0.0

over →

















DMN-7e

DMN-7e















Lichen community sampling Lichen quadrats are each 10cm by 10cm  
 Date: 3/12 Location: Montana Measurers: Law, Carmit  
 Tree: 26-13

Quadrat (cm above ground)	Total cover	% Rough ness	Lichen
South 45-55	1	30	X. gal: 0.5 Lec Black: 0.1 Cord: 0.1
South 80-90	4	15	X. gal: 1.0 Lec. Black: 1.0 Cord: 2.0
North 45-55	1.5	40	X. gal: 0.25 Lec. Black: 0.1 Cord: 1.0
North 80-90	10	10	Lec. Black: 11 (almost all on smooth bark) Cord: 3 → also mostly on smooth bark X. gal: 0.5
DBH (cm): 4.3			
Bole circ (cm): 28			
Tree height (m): 2.8			
GPS: N 41° 08.378' W 111° 56.830'			
Canopy density: N: 95 W: 80 S: 10 E: 96 Elev: 1369			
Core taken? <input checked="" type="checkbox"/>			
Closest Trees: 3.1 (willow), 0.5, 0.5, 0.6			
Large trees: 15.6 (H. olive), 7 h/r, 1.1			

12-3-12

Lichen community sampling Lichen quadrats are each 10cm by 10cm

Date: ~~5-10~~ 12 Location: Ontario Measurers: Laritz, Zed

Tree: LL-14

Quadrat (cm above ground)	Total cover	Rough ness	Lichen
South 45-55	0	2	0
South 80-90	0	5	0
North 45-55	0.1	10	7.3-1: 0.1
North 80-90	0	10	0
DBH (cm): <u>4.3</u>			
Bolt circ (cm): <u>24.5</u>			
Tree height (m): <u>2.5</u>			
GPS: N <u>41° 08.382</u> W <u>111° 56.795'</u> ELEV: <u>1360</u>			
Canopy density: N: <u>1</u> W: <u>0</u> S: <u>9</u> E: <u>8</u>			
Core taken? <u>Y</u>			
Closest Trees: <u>4.5, 4.8, 2.6, 4.3</u> Large Trees: <u>8.0, 14.8, 10, 4.3</u>			

Lichen community sampling Lichen quadrats are each 10cm by 10cm

Date: 12-3-12 Location: Uintah Measurers:

Tree: LL-15

Quadrat (cm above ground)	Total cover	% Roughness	Lichen	
South 45-55	12	70	X. gal: 1.0 P. mel (dark-green): 1.5 Physoid Cand: 0.1	
South 80-90	7	60	X. gal: 3.0 P. mel (dark-green): 2.0 Physoid Cand: 1.0	
North 45-55	45	65	X. gal: 32.0 Lec. Black: 0.25 P. mel (dark-green): 4.0 Physoid Cand: 1.5	X. mont: 1.5.0 green Unknown moss: 0.25 Foliose: 1.0 Lec. light: 0.1 P. adscend: 0.05 Rhizo(?): 0.1
North 80-90	65	50	Cand: 0.5 + 1.0 C. holo: 0.1 X. mont: 3.0 X. gal: 3.0	Lec. Black: 0.25 + 0.25 P. mel (?) (dark green): 2.5 Physoid P. adscend: 0.1

DBH (cm): 10.3

Bole circ (cm): 53.0

Tree height (m): 4.3

GPS: N 41° 08.373' W 111° 56.793'

Elev: 1358

Canopy density: N:1 W:42 S:24 E:12

Core taken? YES

Closest Trees: 2.7, 12, 70, 4.2

(m)

Large Trees: 4.0, 14.3,

(m)

11.8, 4.2

Lichen community sampling Lichen quadrats are each 10cm by 10cm  
Date: 12-3-12 Location: White Measurers: Cas, Larriz  
Tree: 26-16

Quadrat (cm above ground)	Total cover	Rough ness	Lichen
South 45-55	0.01	3.0	X. gal: 0.01
South 80-90	0.1	2.0	X. gal: 0.1
North 45-55	0.11	3.0	X. gal: 0.01 Cond: 0.1 <del>0.1</del> → no apothecia → collected
North 80-90	0.25	2.0	X. gal: 0.25
DBH (cm): 3.0			
Bole circ (cm): 12			
Tree height (m): 2.7			
GPS: N 41° 08.356 W 111° 56.796' ELEV: 1368			
Canopy density: N: 18 W: 19 S: 96 E: 61			
Core taken? YES			
Closest Tree: 1.5, 4.6, 3.1, 1.8 (m)			
Large Trees: 2.8, 4.6, 18.0, 1.8 (m)			

Lichen community sampling Lichen quadrats are each 10cm by 10cm

Date: 12-3-12 Location: 07722 Measurers: Lars, Lari  
Tree: L2-17

Quadrat (cm above ground)	Total cover	% Rough ness	Lichen
South 45-55	0.1	15	X. gal: 0.1
South 80-90	0.1	10	X. gal: 0.1
North 45-55	1.0	25	X. gal: 0.25 Cand: 0.25 Rhino. Dyna: 0.1 <del>Le. brown: 0.05</del>
North 80-90	0.0	10	X. gal: 0.01
DBH (cm): 8.1			
Bole circ (cm): 32			
Tree height (m): 6.2			
GPS: N 41° 08.342' W: 111° 56.804' Elev. 1360			
Canopy density: N: 71 W: 82 S: 95 E: 73			
Core taken? YES			
Closest Trees: 0.1, 4.1, 3.7, 1.5			
Large trees: 2.0, 4.1, 4.6, 1.5			

5 ft from

Lichen community sampling Lichen quadrats are each 10cm by 10cm

Date: 12-3-14 Location: Unalakleet Measurers: Larnity, Carl

Tree: 22-18

Quadrat (cm above ground)	Total cover	Rough ness	Lichen
South 45-55	0.01	15	X. gal: 0.01
South 80-90	φ	10	φ
North 45-55	0.01	6.0	X. gal: 0.01
North 80-90	φ	20	φ

DBH (cm): 4.4

Bole circ (cm): 17.5

Tree height (m): 4.0

GPS: N 41° 08.287 W 111° 56.639

Elev: 1362

Canopy density: N: 28 W: 70 S: 75 E: 51

Core taken? Yes - lost bark cap

Closest trees: 13.4, 2.2, 2.2, 4.2

(m)

Large trees: 13.4 (Elev: 1362), 6.9, 9.5, 4.2

Lichen community sampling Lichen quadrats are each 10cm by 10cm

Date: 12-3-12 Location: 01222 Measurers:

Tree: 12-19 → double leader (DBH as Both Leaders)

Quadrat (cm above ground)	Total cover	Rough ness	Lichen
South 45-55	0	25	0
South 80-90	0.1	5	X. gal: 0.1
North 45-55	0	10	0
North 80-90	0.01	4.0	X. gal: 0.01

DBH (cm): 10.2 Total of Both Leaders

Bole circ (cm): 13.0

Tree height (m): 4.4

GPS: N 41° 08.289 W 111° 56.609

Elev: 1364

Canopy density: N: 14 W: 96 S: 29 E: 96

Core taken? YES

Closest Trees: 3.6, 2.0, 2.2, 0.4

Large Trees: 6.0, 2.0, 2.2, 1.9

Janet's Note  
What !!!



Lichen community sampling Lichen quadrats are each 10cm by 10cm

Date: 3-12 Location: unit 2 Measurers: Carroll, Carr

Tree: LL-20

Quadrat (cm above ground)	Total cover	Rough ness	Lichen
South 45-55	φ	40	φ
South 80-90	φ	15	φ super zero!!!
North 45-55	φ	5	φ
North 80-90	φ	5	φ

DBH (cm): 8.1

Bole circ (cm): 30

Tree height (m): 3.8

GPS: N 41° 08.318 W 111° 56.643'

Elev: 1357

Canopy density: N: 0 W: 7.0 S: 0 E: 168

Core taken? Yes

Closest Tree: 2.0, 1.25, 3.4, 3.7

(m)

Large Trees: 4.0, 9.3, 22.0,

(m)

37

Lichen community sampling Lichen quadrats are each 10cm by 10cm

Date: 12-3-12 Location: 0m7-2 Measurers: Leo, Lar 2

Tree: L2-21

Quadrat (cm above ground)	Total cover	Rough ness	Lichen
South 45-55	0	35	0
South 80-90	0	25	0
North 45-55	0.01	35	to 3-1; 0.01
North 80-90	0	20	0

DBH (cm): 7.4

Bole circ (cm): 41

Tree height (m): 4.3

GPS: N 41° 08.321

W 111° 56.651

Elev: 1354

Canopy density: N: 15 W: 60 S: 1 E: 24

Core taken? Yes

C10 S45+ Trees: 6.0, 1.1, 2.0, 2.0

(m)

Large Trees: 14.1, 3.0, 3.0, 2.0

(m)

Lichen community sampling Lichen quadrats are each 10cm by 10cm

Date: 12/3/2013 Location: N. Winta Measurers: Lunit, LCU

Tree: 56-08

All visible measurements added

Quadrat (cm above ground)	Total cover	% Rough ness	Lichen
South 45-55	0	5	0
South 80-90	0	10	0
North 45-55	0.25	10	X. gal: 0.25
North 80-90	0.1	3	X. gal: 0.1

DBH (cm): 4.1

Bole circ (cm): 22.5

Tree height (m): 3 m

GPS: N 41° 08.315' W 111° 56.630'

Canopy density: N=0, W=25, S=80, E=0

From 1.5-2 m away from tree

Core taken?: Yes From about 15-20 cm height. 2 Cores taken → one shit, one good

Four closest trees: 2.0, 2.2, 11.2, 7.9  
(m)

Distance to larger trees: 5.5, 19.4, 21.2, 4.1  
over 5 meters + >10cm diameters (DBH)  
(m)

Lichen community sampling Lichen quadrats are each 10cm by 10cm

Date: 12-3-17 Location: Wm Fork Measurers:

Tree: LL-09

Quadrat (cm above ground)	Total cover	Rough ness	Lichen
South 45-55	0.25	70	X. gal = 0.25
South 80-90	2	<del>70</del> 75	X. gall = 2
North 45-55	7	70	Rhizo = 0.1 → maybe a black LEC, Cand = 0.1 X. gal = 7
North 80-90	1.0	40	X. gal = 1.0

DBH (cm): 10

Bole circ (cm): 48

Tree height (m): 4.4 total

GPS: N 41° 8.340 min W 111° 56.612 min Elevation = 1361 m

Canopy density: N: 96 W: 96 S: 94 E: 95

Core taken? YES

Closest Trees: 3.1, 1.3, 0.3, 0.8  
(cm)

Large Tree: 37.9, 1.3, 0.3, 0.8  
(cm)

Lichen community sampling Lichen quadrats are each 10cm by 10cm

Date:

Location: Unit 2 Measurers:

Tree:

SL = LL - 10

Quadrat (cm above ground)	Total cover	% Rough ness	Lichen
South 45-55	φ	25 <del>15</del>	φ
South 80-90	φ	10 <del>15</del>	φ
North 45-55	1.5	75	x. 3m/; 0.5 Cand; 0.5 Lec (?); 0.07 - possible
North 80-90	φ	2	φ

DBH (cm): 7.0

Bole circ (cm): 30.1

Tree height (m): 3.6

GPS: N 41° 08.339' W 111° 56.649' Elev: 1362 m

Canopy density: N: 5 W: 22 S: 86 E: 0

Core taken? YES

Closest tree: 16, 7.1, 3.7, 0.8  
cm

Large tree: 29, 11.3, 43.6, 3.3  
cm

Lichen community sampling Lichen quadrats are each 10cm by 10cm

Date: 12/12 Location: Ontario Measurers:

Tree: ~~Tree~~ gn0468 Rancet (1m south of gn0468) - no tag

gn0468  
Rancet

Quadrat (cm above ground)	Total cover	Rough ness	
South 45-55			<u>Lichen</u>
South 80-90			
North 45-55			
North 80-90			

DBH (cm):           

Bole circ (cm):           

Tree height (m): 3.0

GPS: N 41° 08.308 W 111° 56.655

Canopy density: N: 96 W: 13 S: 86 E: 1.0 EICU: 1324

Core taken? YES

Closest Trees: 8.0 (Willow), 1.0, 3.2, 2.8  
(m)

Large Trees: 12.8, 1.0, 10.1, 2.8  
(m)

Lichen community sampling Lichen quadrats are each 10cm by 10cm  
 Date: 12-3-12 Location: 0m7n2 Measurers:  
 Tree: 0n4-13

Quadrat (cm above ground)	Total cover	Rough ness	Lichen
South 45-55			
South 80-90			
North 45-55			
North 80-90			

DBH (cm):  
 Bole circ (cm):  
 Tree height (m): 7.4  
 GPS: N 41° 08.306' W 111° 56.621' Elev: 1361  
 Canopy density: N: 29 W: 96 S: 90 E: 96  
 Core taken? X (2)  
 closest + 1.2, 0.4, 4.0, 0.5, 0.5  
 Large Trees: 1.4, 4.0, 0.5, 4.0

Date: ~~12-4-12~~ 12-4-12 Location: Unit 2  
 Tree: LL-25  
 Quadrat

Quadrat	Total Cover	Loss %	Lichen
South 45-55	0.01	20	X. gal: 0.01 → collected From Quadrat
South 80-90	∅	3	∅
North 45-55	∅	8	∅
North 80-90	∅	5	∅

DBH: 3.4  
 Bole Circ: 20.0  
 Height: 2.4  
 GPS: N 41° 08.311' W 111° 56.678'  
 ELEV: 1360  
 Canopy Density: N: 6 W: 10 S: 22 E: 0.0  
 Core taken: YES  
 Closest Tr: 3.0, 3.9, 5.0, 1.9  
 Large Tr: 13.8 (Fremont), 15.2, 10.8, 7.0



Tree: gn-85 (1' foot away from goncho's gn-85)

Quadrat	Total Cover	R032	Lichen
South 45-55			
South 80-90			
North 45-55			
North 80-90			
DBH: — Bole circ: — Height: 6.2 GPS: N 41° 08.322 W 111° 56.683' Elev: 1362 canopy density: N: 0.0 W: 0.0 S: 91 E: 86 Closest Trees: 3.7, 0.5 (unk. shrub), 4.1, 7.0 Large Trees: 3.7, 16, 4.1, 11.1 (also 1' away) Core Taken: YES 2.2 m tall ← gn-85 + it has a lot of lichen			

Tree: LL-26

Winter

Leo, Lar. 1

Quadrat	Total Lev	Rough	Lichen
South 45-55	23	90	X. mont: 9 X. gal: 14 P. mel (brown-green) Foliose: 0.25
South 80-90	31	80	X. gal: 2.5 X. mont: 0.5
North 45-55	30	<del>75</del> 60	X. mont: 18 X. gal: 6.0 Cand: 2.0 Lec. Black: 0.5 P. ascerd: 0.1
North 80-90	20	35	X. gal: 7.0 X. mont: 4.0 Cand: 1.0 Lec. Black: 0.5

DBH: 15.1

Bole circ: 48

Ht: 27: 3.3

GPS: N 41° 08.332' W 111° 56.550'

Elev: 1365

Closest trees: 1.6, 0.2, 0.0 (Sage), 0.0

Large trees: 2.2, 27.9, 32.5, 0.0

Canopy  
density: N: 92 W: 96 S: 92 E: 96

To  
Matt  
Lau

This is the  
full set.