

# UBC Farm forest and tree plantation areas - Uses and possibilities –

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Authors: Cindy Prescott and Laura Morillas

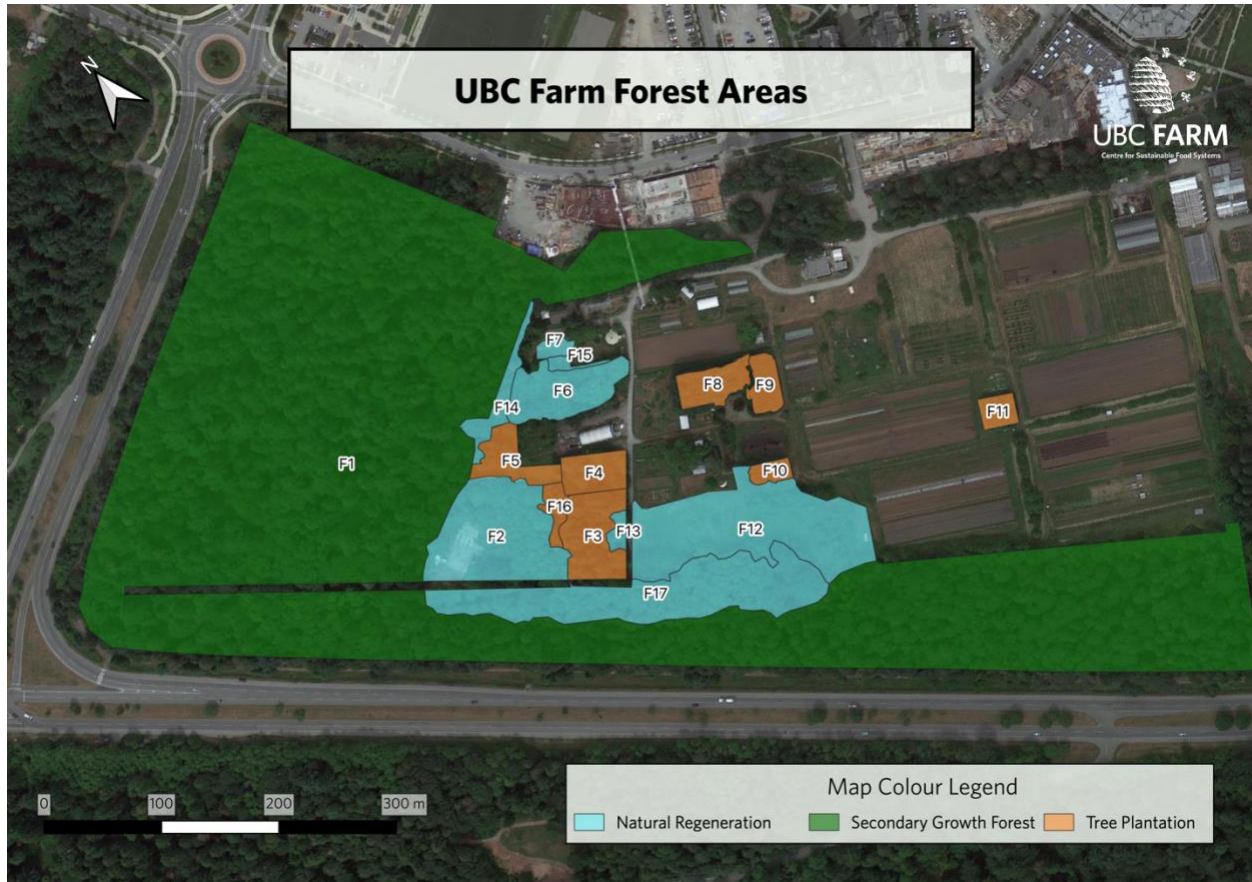


Figure 1. UBC Farm map showing the location of UBC Farm forested areas. See interactive version [here](#).

Table 1. List of distinct forest and tree plantation areas at UBC Farm. Descriptions provided by Cindy Prescott as a result of a visit to the Farm in February of 2021.

Field code	Description	Current uses
F1	Mature second-growth forest	<ul style="list-style-type: none"> <li>• Agroforestry trail</li> <li>• Teaching and research</li> </ul>
F2	Logger Sports area surrounded by alder natural regeneration and dense spruce plantation	<ul style="list-style-type: none"> <li>• Logger Sports area</li> <li>• Spruce plantation (abandoned experiment)</li> </ul>
F3	Mature Douglas-fir plantation	<ul style="list-style-type: none"> <li>• Soil pit</li> </ul>
F4	Arboretum	<ul style="list-style-type: none"> <li>• None</li> </ul>
F5	Christmas tree plantation - with yellow cedar hedge	<ul style="list-style-type: none"> <li>• Christmas tree market</li> </ul>
F6	Degenerating alder natural regeneration - blackberry + abandoned shitake logs	<ul style="list-style-type: none"> <li>• Abandoned shitake logs</li> </ul>
F7	Mixed broadleaf and conifer -Dense natural regeneration	None
F8	Overstocked Douglas-fir plantation	<ul style="list-style-type: none"> <li>• Abandoned experiment</li> </ul>

F9	Overstocked cedar plantation	• Abandoned experiment
F10	Mature poplar grove	Abandoned experiment
F11	Spruce/pine mixture	• Probably abandoned experiment
F12	Wet brushy area – standing water, mixed broadleaf species	None
F13	Mixed cedar, Douglas-fir and broadleaves. Mostly natural regen after losing some of the Douglas fir.	None
F14	Forest edge – demented natural regeneration	None
F15	Young cedar and broadleaf trees – natural regeneration	None
F16	Spruce plantation	• Abandoned experiment
F17	Natural regen along ditch	None

F1. Mature second-growth forest	
Current uses:	<ul style="list-style-type: none"> <li>• Agroforestry trail</li> <li>• Teaching (several faculty members)</li> <li>• Research (Richard Hamelin and Terry Sunderland)</li> <li>• Nature Vancouver bird watching (no FoF uses)</li> <li>• Children camps (no FoF uses)</li> <li>• UBC Farm Biodiversity monitoring program (no FoF uses- Matt Mitchell)</li> </ul>
Past uses:	
Faculty using this area:	<ol style="list-style-type: none"> <li>1. <b>Patrick Culbert</b> (teaching, once a year-late summer)</li> <li>2. <b>Suzanne Simard</b> (teaching, 200 FRST labs, two months a year) using mostly the agroforestry trail</li> <li>3. <b>Richard Hamelin</b> (teaching and research, multiple times a year). <ul style="list-style-type: none"> <li>○ <u>For teaching</u> he uses the agroforestry trail for Forest Biotic Disturbance course (FRST307) and Forest Pathology in the Anthropocene (FRST506) courses. He uses the agroforestry trail to demonstrate multiple tree diseases symptoms and impacts.</li> <li>○ <u>For research</u> he frequently collects samples (soil, roots, fungi) for research usually involving DNA analyses.</li> </ul> </li> <li>4. <b>Terry Sunderland</b> (research and teaching). <ul style="list-style-type: none"> <li>○ <u>For teaching</u> he uses the farm for FRST 559 course as a case study for Sustainable Resource Management.</li> <li>○ <u>For research</u> i(2020-2021) he carries out a tree survey of all trees &gt;10cm dbh in the entire mature second growth forest area.</li> </ul> </li> <li>5. <b>Guangyu Wang</b> (teaching, twice a year)</li> <li>6. <b>Paul Lawson</b> (teaching, 2-3 times a year). He uses the agroforestry trail</li> <li>7. <b>Deborah DeLong</b> (teaching, 4-5 times per year)</li> <li>8. <b>Cindy Prescott</b> (teaching, annually)</li> <li>9. <b>Sue Grayston</b> (teaching, annually)</li> </ol>
Potential additional uses:	<ul style="list-style-type: none"> <li>• Healing forest project</li> <li>• Mindfulness trail</li> </ul>

Image	NA
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**F2. Logger Sports area surrounded by alder natural regeneration and dense spruce plantation**

Current uses:	Logger Sports area Research (open-top chambers from Rob Guy's Lab in 2020-2021)
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Past uses:	<ul style="list-style-type: none"> <li>• Spruce plantation (abandoned experiment)</li> <li>• Logger sports</li> </ul>
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Faculty using this area:	<ul style="list-style-type: none"> <li>• <b>Chunping Dai</b>- Research activities (2 times a month). They also submitted in 2021 a CLL research proposal (not funded) to build a club house using bamboo and wood as part of research project and a demonstration for sustainable buildings. They hope to use this building for ongoing testing on the performance of the hybrid building module/system.</li> <li>• <b>Rob Guy</b> (research, 2020-2021). Open top chambers installed to support PhD research project (Laura Super)</li> <li>• <b>Logger sports group</b></li> </ul>
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Potential new uses:	<ul style="list-style-type: none"> <li>• Building a cover structure to enable learning activities for the broader community</li> </ul>
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F2 Dense spruce plantation in F2 (pictures above)





F2 degenerating alder natural regeneration (picture above)

**F3. Mature Douglas-fir plantation**

Current uses: Soil pit

Past uses:

Faculty using this area: **Soil pit users:**

- **Maja Krzic & Sandra Brown (LFS)** for APBI 200 winter term 2 and ABPI 401 / LWS 501 field trips
- **Patrick Culbert** (forestry) for FRST 351
- **Suzanne Simard, Deb DeLong** (teaching, annually)

Potential new uses:



Images:




**F4. Arboretum**

Current uses: None

Past uses: Established by John Worrall (retired)\*

Faculty using this area:	<b>Cindy Prescott</b> (teaching, annually)
Potential new uses:	<ul style="list-style-type: none"> <li>Teaching (Susan Day is interested in revamping it into an Urban Arboretum where urban forestry students learn to identify and prune trees and shrubs.)</li> </ul>
Images:	 <p>See detail above of the Arboretum's Beech hedge</p>
<b>F5. Christmas tree plantation</b>	
Current uses:	<p>Christmas tree market</p> <p>Research (open top chambers from Rob Guy's Lab in 2020-2021)</p>
Past uses:	Example of fir plantation for Christmas tree production
Faculty using this area:	<ol style="list-style-type: none"> <li><b>Patrick Culbert</b> - Christmas tree market coordinator (Dec 2020)</li> <li><b>Cindy Prescott</b> (teaching, annually)</li> <li><b>Rob Guy</b> (research, 2020-2021). Open top chambers installed to support PhD research project (Laura Super)</li> </ol>
Potential uses:	<ul style="list-style-type: none"> <li>Potted Christmas tree production system as example of alternative Christmas tree production</li> </ul>
Images:	
<b>F6. Degenerating alder natural regeneration - blackberry + abandoned shitake logs, mat cover over soil</b>	
Current uses:	None
Past uses:	Abandoned shitake logs
Faculty using this area:	<ol style="list-style-type: none"> <li><b>Richard Hamelin</b> (teaching, annually) - noted peculiar pathologies of alder trees probably related to landscape fabric interfering with soil conditions</li> </ol>

Potential uses:	Transform into urban forest garden along with F7 and F15
Images:	NA

**F7. Mixed broadleaf and conifer -Dense natural regeneration**

Current uses:	None by FoF members
Past uses:	None
Faculty using this area:	None
Potential uses:	Transform into urban forest garden along with F6 and F15



**F8. Overstocked Douglas-fir plantation**

Current uses:	<ul style="list-style-type: none"> <li>• None by FoF members</li> <li>• Potential uses by Indigenous communities (Eduardo Jovel)</li> <li>• Bumble nesting boxes from Juli's Carrillo lab (2021)</li> </ul>
Past uses:	The plantation is an abandoned experiment
Faculty using this area:	<ol style="list-style-type: none"> <li>1. Eduardo Jovel (not FoF)</li> <li>2. Juli Carrillo from LFS</li> </ol>
Potential new uses:	Thin from below and manage as example of woodlot.






<b>F9. Overstocked cedar plantation</b>	
Current uses:	None by members of FoF Research (2021, bumble bee boxes from Juli’s Carrillo Lab)
Past uses:	The plantation is an abandoned experiment
Faculty using this area:	1. No one from FoF 2. Juli Carrillo (2021)
Potential new uses:	Thin from below and manage as example of woodlot. Involve David Montwe – new silviculture prof.
Image:	NA

<b>F10. Mature poplar grove</b>	
Current uses:	<ul style="list-style-type: none"> <li>• None by FoF members</li> <li>• UBC Farm events (wedding, long table dinners)</li> </ul>
Past uses:	Abandoned experiment
Faculty using this area:	Cindy Prescott – example of fast-growing tree species used in temperate agroforestry
Potential new uses:	



<b>F11. Spruce/pine mixture</b>	
Current uses:	None by FoF members

	Research (2021, bumble bee boxes from Juli's Carrillo Lab)
Past uses:	The plantation is an abandoned experiment
Faculty using this area:	No one from FoF Juli Carrillo form LFS (2021)
Potential new uses:	Thin and use as mini-woodlot?
Images:	 <p>Exterior (left) and interior (right) view of the plantation</p>
<b>F12. Wet brushy area – standing water, mixed broadleaf species</b>	
Current uses:	None by FoF members
Past uses:	None
Faculty using this area:	Biodiversity monitoring site – probably adds biodiversity
Potential new uses:	
Images:	NA
<b>F13. Mixed cedar, Douglas-fir and broadleaves</b>	
Current uses:	None by FoF members
Past uses:	None
Faculty using this area:	
Potential new uses:	





<b>F14. Forest edge – demented natural regeneration</b>	
Current uses:	None by FoF members
Past uses:	None
Faculty using this area:	None
Potential new uses:	Could augment agroforestry trail by showing native plants that are best suited to edges and open habitats and/or those that would have been grown by First Nations by keeping forest at bay
Images:	NA

<b>F15. Young cedar and broadleaf patch</b>	
Current uses:	None by FoF members
Past uses:	Unknown
Faculty using this area:	None
Potential new uses:	

Images:	
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**F16. Spruce plantation**

Current uses:	None by FoF members
Past uses:	Abandoned experiment
Faculty using this area:	None
Potential new uses:	Does not lend itself to much use
Images:	NA

**F17. Road-verge forest**

Current uses:	None by FoF members Research (UBC Farm Biodiversity monitoring program)
Past uses:	None
Faculty using this area:	No one from FoF Matt Mitchell from LFS (biodiversity monitoring camera traps)
Potential new uses:	<ul style="list-style-type: none"> <li>• Potential to rehabilitate this area as a <b>riparian buffer demonstration</b> site.</li> <li>• Potential for COPPICING demonstration in area with young alders, to accompany future shitake mushroom operation</li> </ul>
Images:	NA

FoF faculty members who are already using portions of the UBC Farm forested areas for teaching or research (according to survey submitted in January 2021):

Name	Email Address	Frequency	Type of use
Deborah DeLong	deborah.delong@ubc.ca	4 or 5 times per year	Teaching
Cindy Prescott	Cindy.prescott@ubc.ca	annual	Teaching
Terry Sunderland	terry.sunderland@ubc.ca	2020-2021, weather dependent	Research
Fernanda Tomaselli	fernanda.tomaselli@ubc.ca	One field trip per year with UBC Land One students.	Teaching
Paul Lawson	Paul.lawson@ubc.ca	2-3 times per year	Teaching
Sue Grayston	sue.grayston@ubc.ca	Annual teaching of courses	Teaching
Guangyu Wang	Guangyu.wang@ubc.ca	Twice a year	Teaching
Chunping Dai	Chunping.dai@ubc.ca	2 times per month	Research
Robert Guy	rob.guy@ubc.ca	Weekly during 2020-2021	Research
Patrick Culbert	patrick.culbert@ubc.ca	Once per year (late summer)	Teaching
Suzanne Simard	suzanne.simard@ubc.ca	two months per year to teach labs to 200 FRST 201 students	Teaching
Richard Hamelin	richard.hamelin@ubc.ca	Multiple times a year	Teaching

FoF faculty members who expressed interest to use the UBC Farm Forest for research or teaching purposes (according to survey submitted in January 2021):

Name	email	Position
Robert Kozak	rob.kozak@ubc.ca	Professor
Lorien Nesbitt	lorien.nesbitt@ubc.ca	Professor
Andrew Almas	Andrew.almas@ubc.ca	Professor
Andres Varhola	andres.varhola@ubc.ca	Instructor/Lecturer
Lori Daniels	lori.daniels@ubc.ca	Professor
Robert Fuerst	robert.fuerst@ubc.ca	Professor
Susan Day	susan.day@ubc.ca	Professor
Jeff Sayer	jeffrey.sayer@ubc.ca	Professor
Jeanine Rhemtulla	jeanine.rhemtulla@ubc.ca	Professor
David Montwe	David.montwe@ubc.ca	Professor

New potential uses for the UBC Farm Forest:

- Urban permaculture demonstration (Andrew Almas)
- Tree surveying as part of experiential activities embedded in FRST 304 (Andres Varhola)
- Tree planting project for students where we plant and excavate trees each year. (Susan Day)
- Revamping of Arboretum for educational purposes (Susan Day)
- Demonstration of coppicing, shitake mushroom production and riparian buffer demonstration in section F17 (Cindy Prescott)
- Mindfulness trail in section F1 (Tahia Devisscher)
- Healing forest inter-cultural reconciliation forest trail in section F1 (Sue Grayston)
- Potted Christmas tree production system as example of alternative Christmas tree production