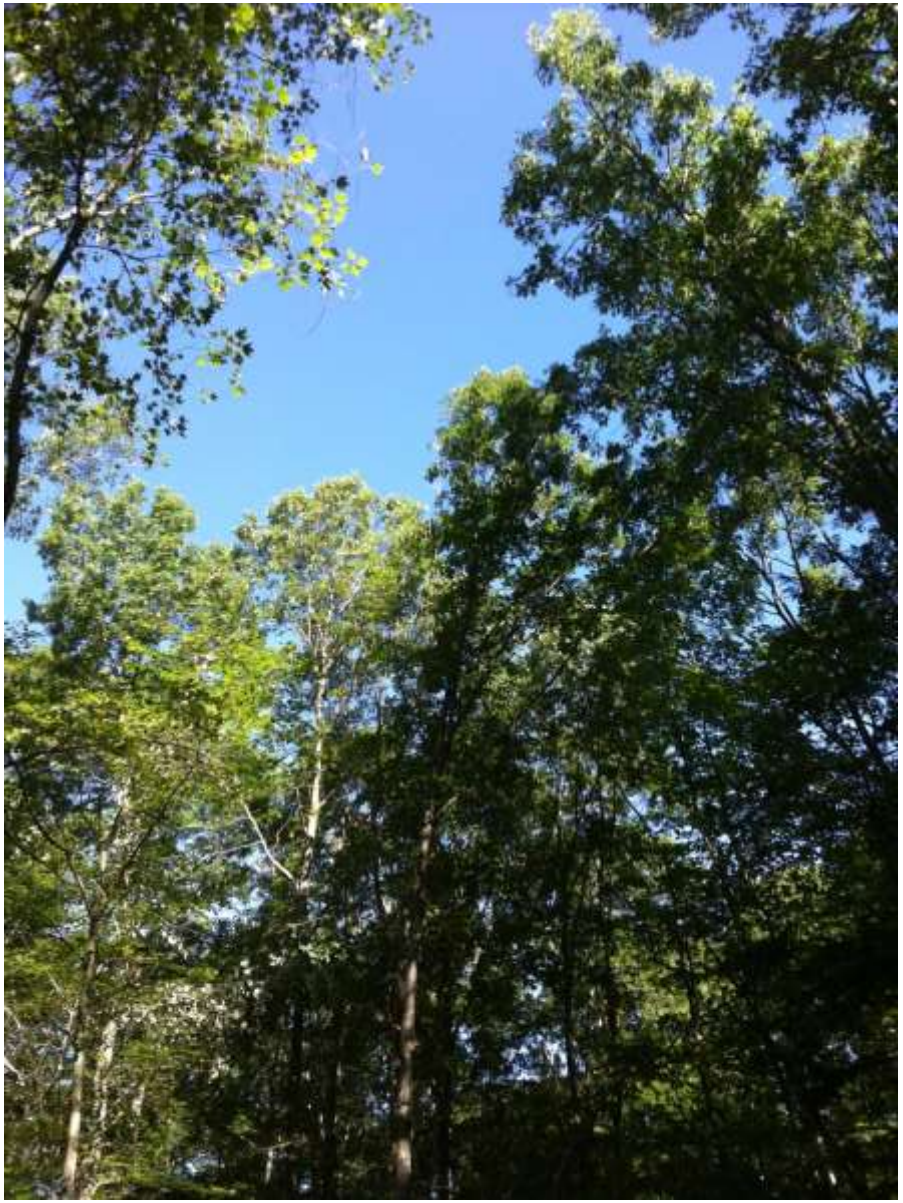
Wild Ideas

Forest Health Workshop
March 7, 2017
Southington, CT
Thomas E. Worthley
Associate Extension Professor

UCONN
COLLEGE OF AGRICULTURE, HEALTH AND NATURAL RESOURCES



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Thank You!

Photo credits:

Nancy Marek
and Tom Worthley

"Talent":

Meg Tashash
Sophia Mancini
Jon Cherico
Brandon Coleman
Tom Garofano
David Backhaus
Ryan Pike
Michael Trainor
Taylor Hastings

Rationale:

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Young forest promotion efforts/ NEC/ age class diversity

Conflicting priorities?

"Carrying capacity"

Historical perspective

Actual conditions

Silvicultural creativity

Three notions for discussion today.

Inverting systems

Transitioning systems

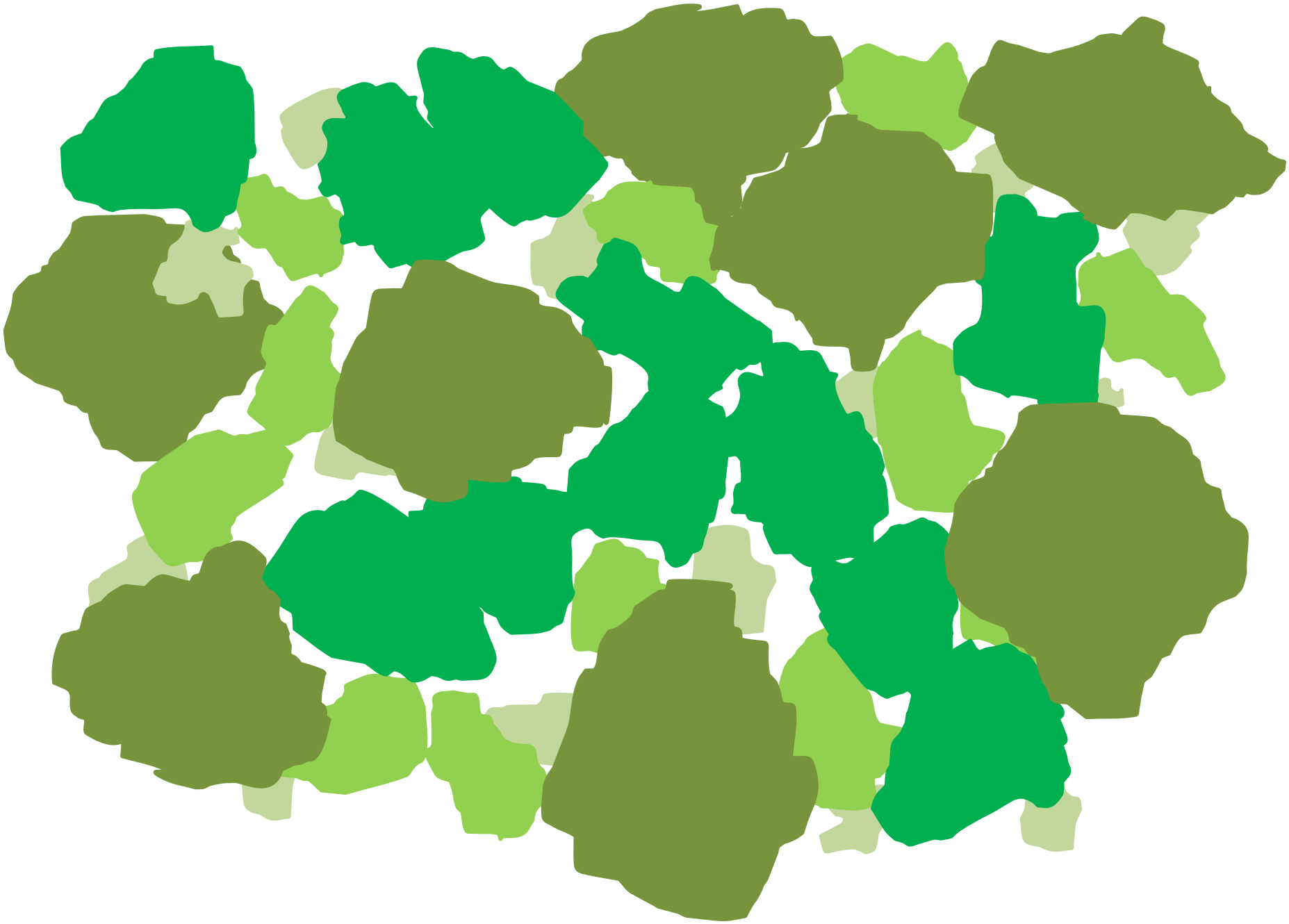
“Boldly go where no man has gone before”

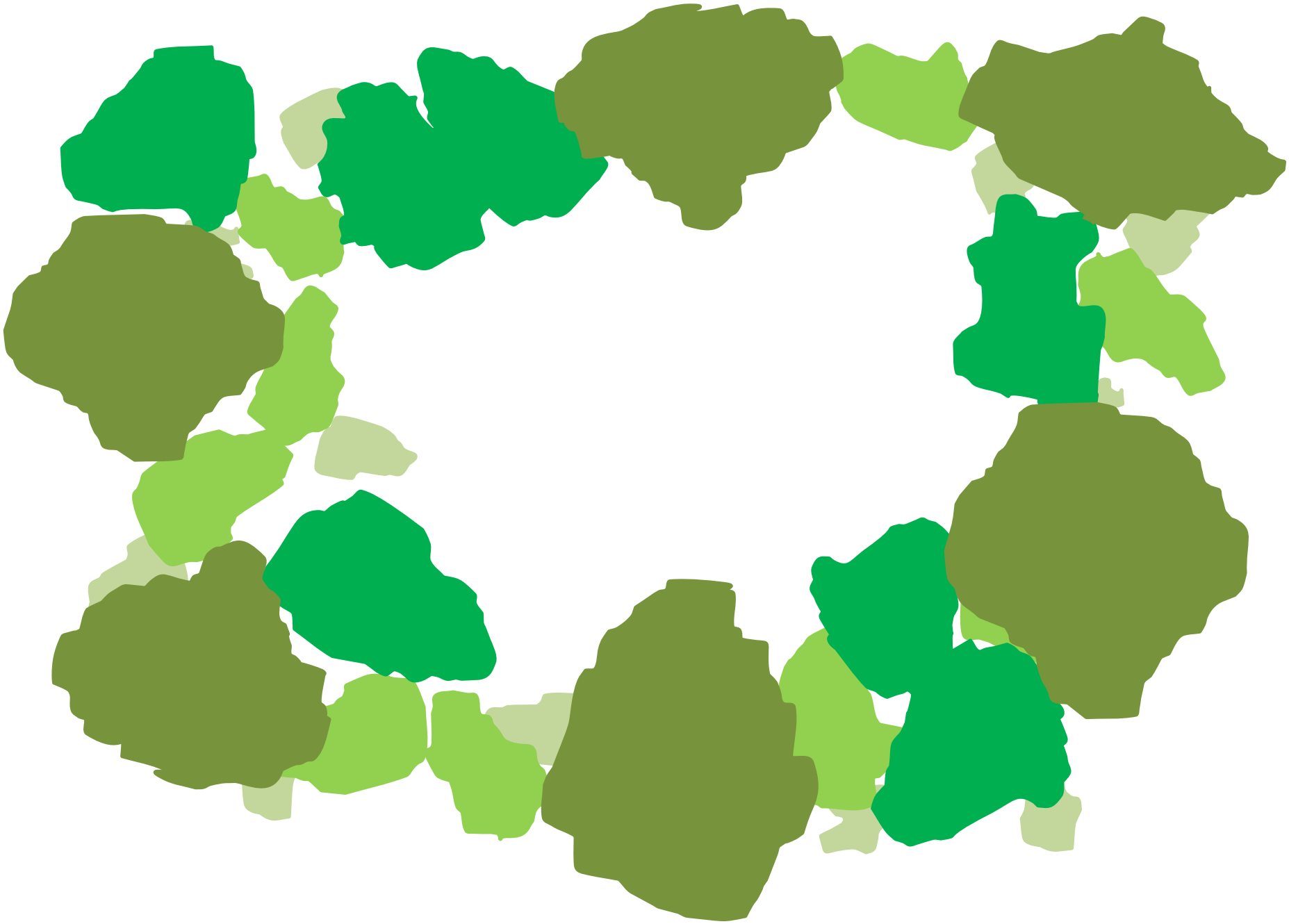
Stand?
Silvicultural Systems
Reality…

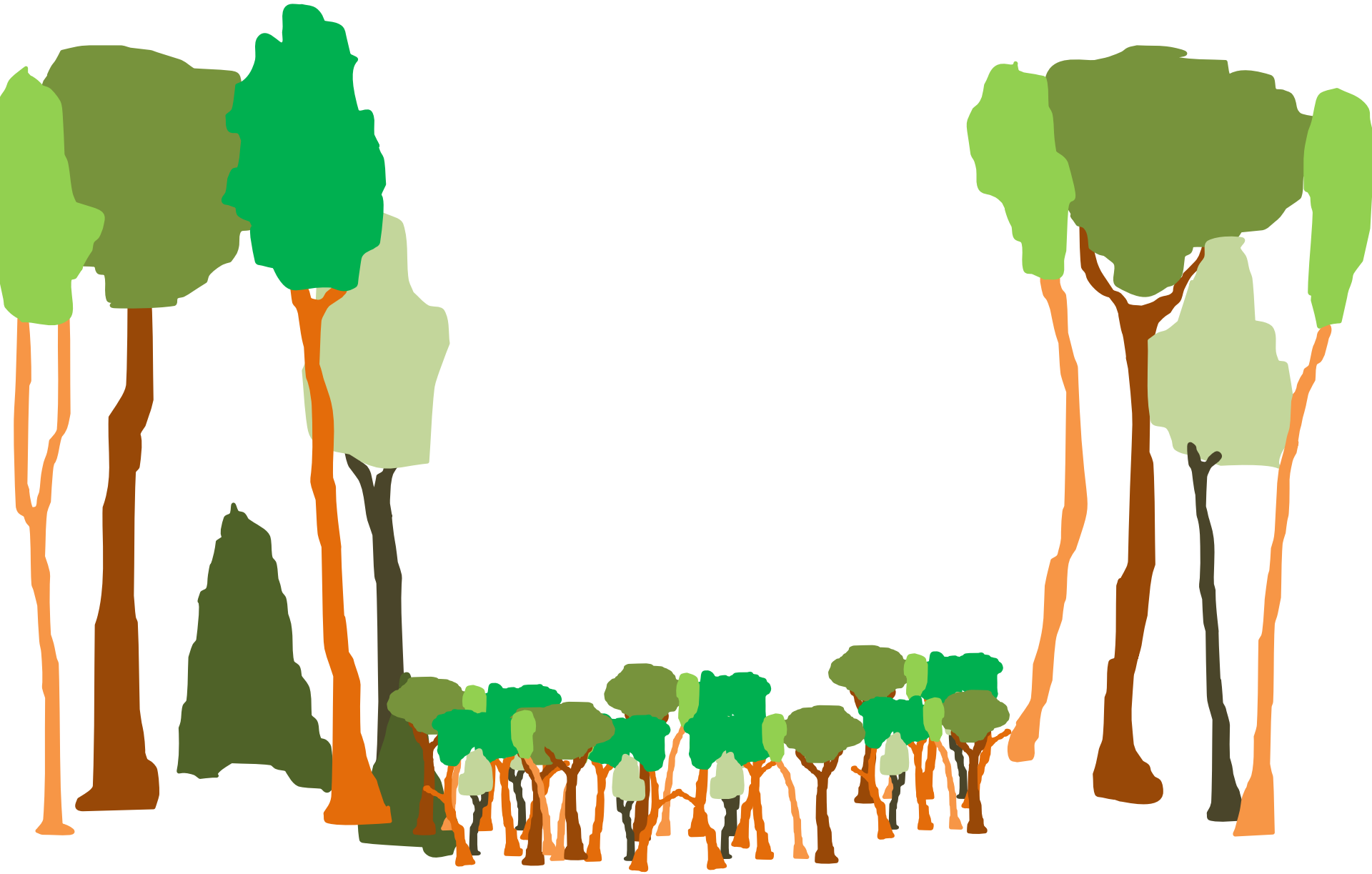
Irregular Shelterwood?

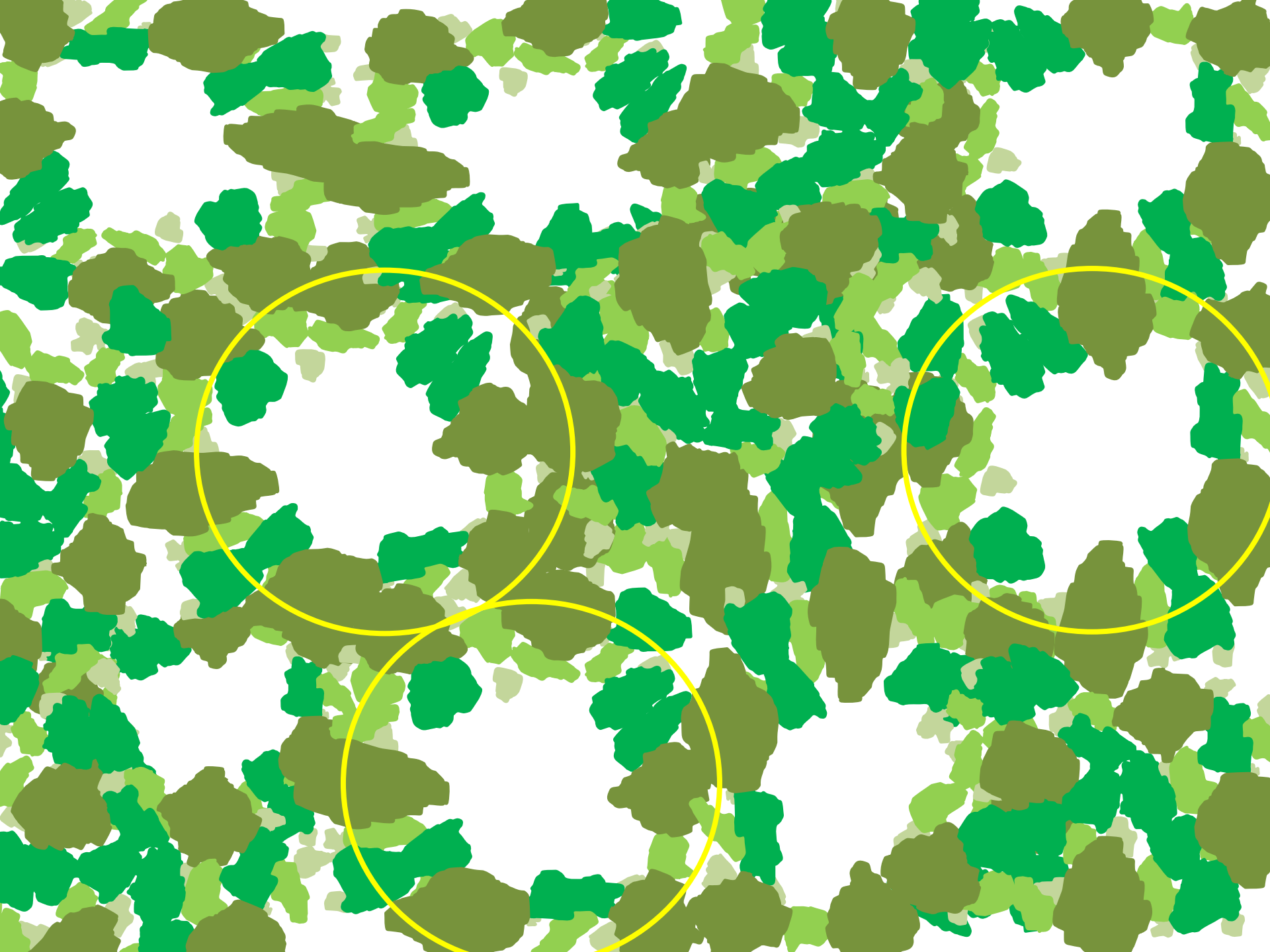
Inverting a system…

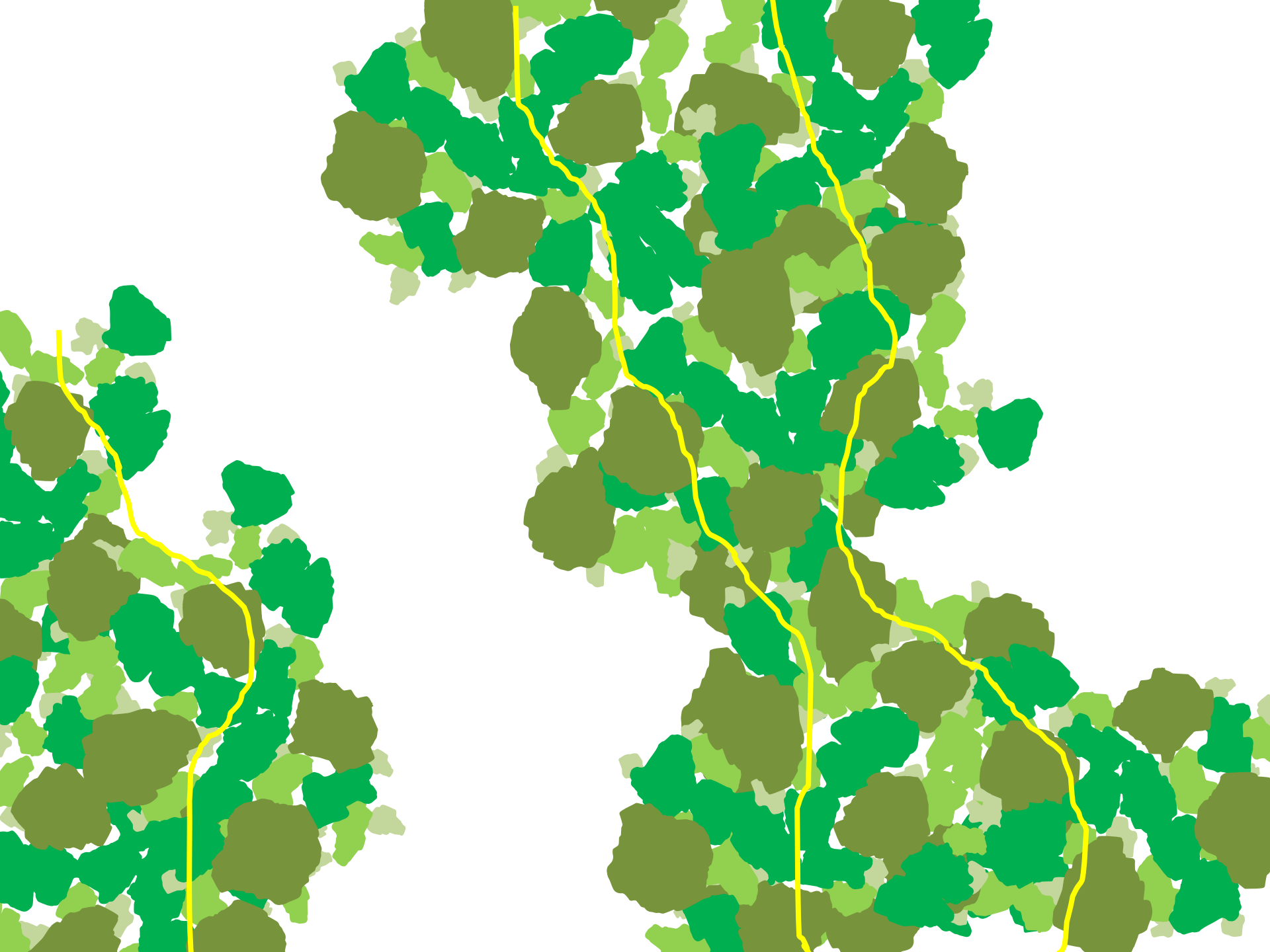
Expanding Gap





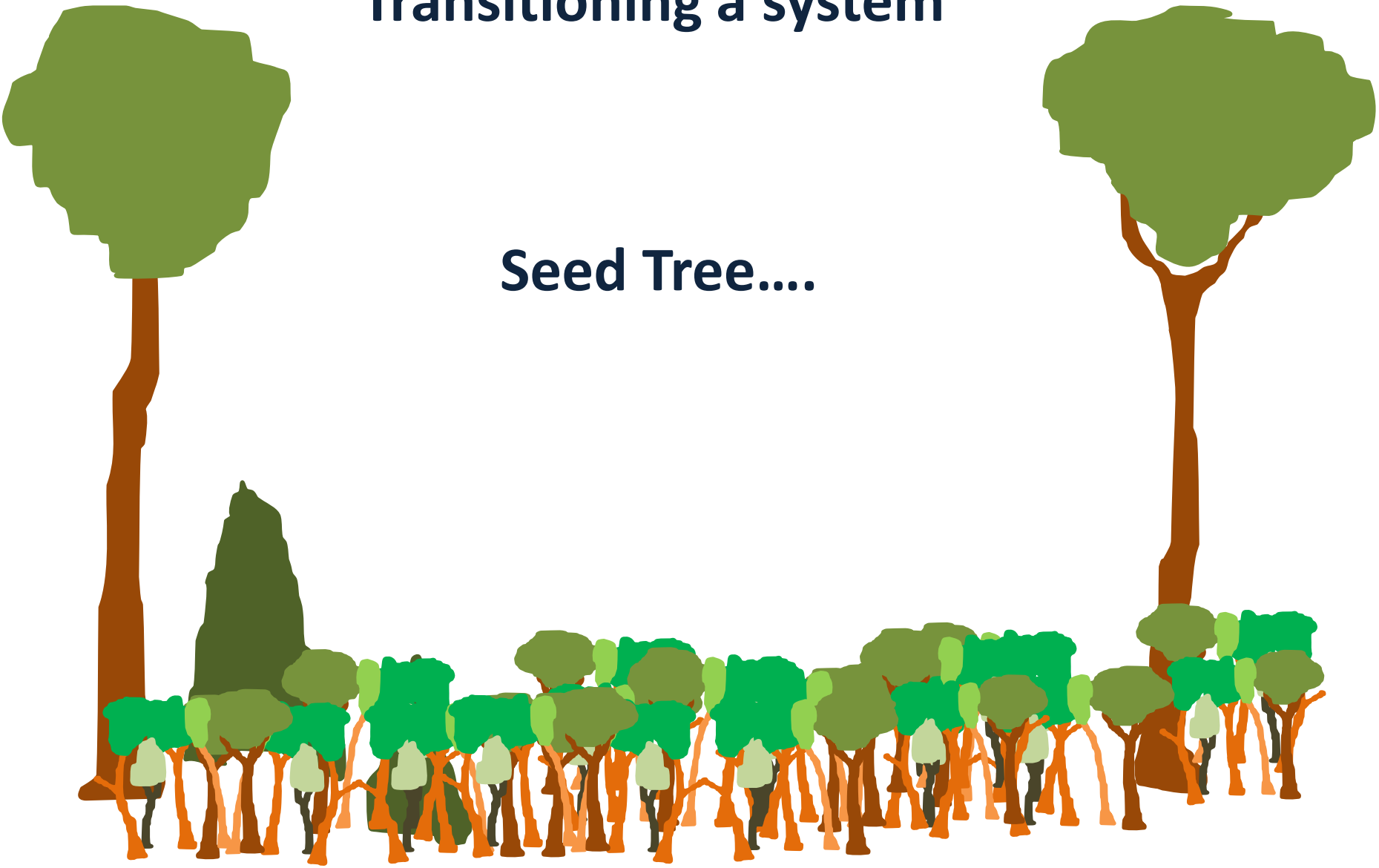




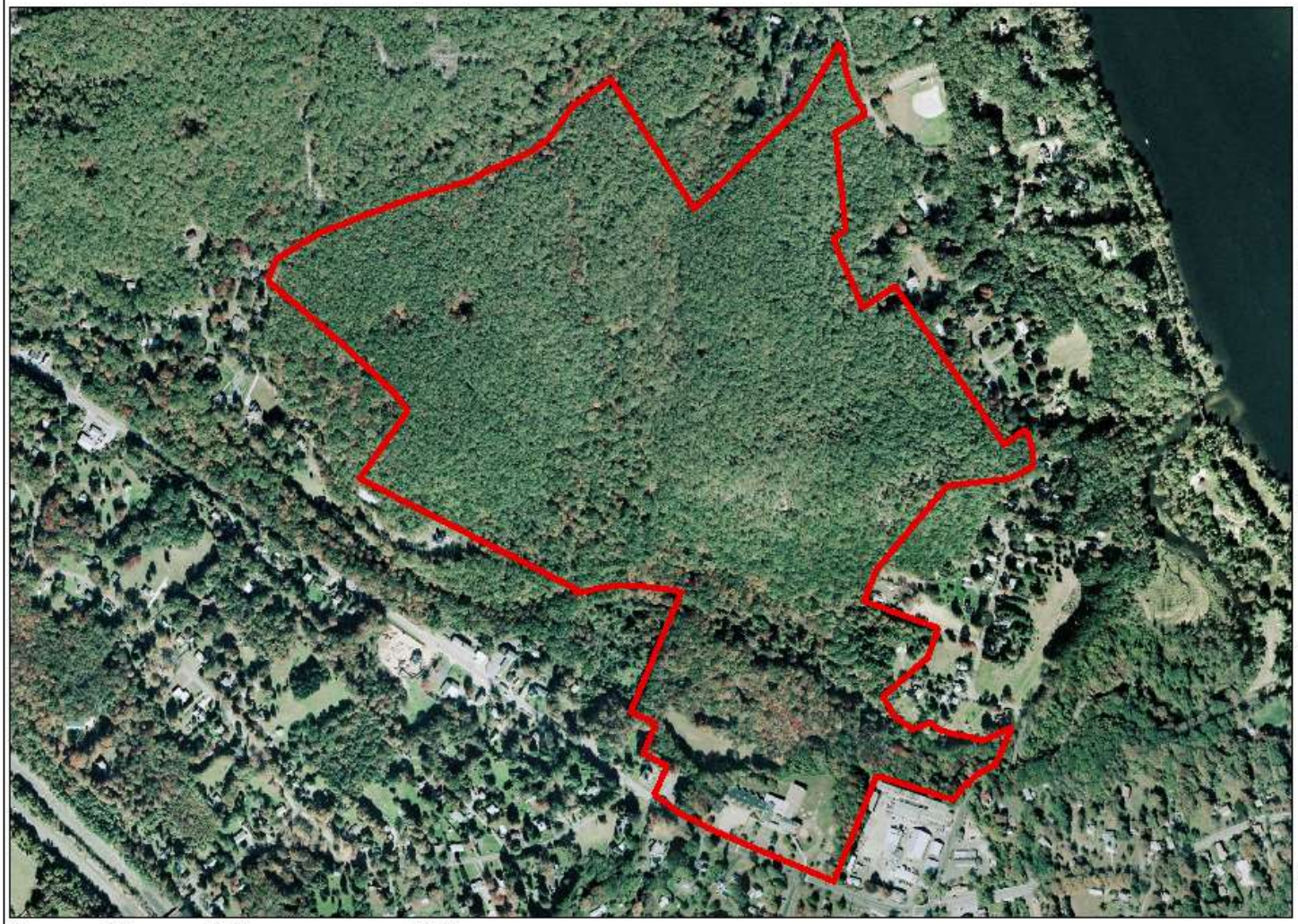


Transitioning a system

Seed Tree….



Aerial - Summer: RSD17



0 500 1,000 2,000 Feet

N W E S

Map Layers:
Aerial - Microsoft Bing Maps

Property Acres: 157.9
Regional School District 17

Boundary information is approximate.
For general reference only.

Printed: 1/7/2011

University of Connecticut
College of Agriculture and Natural Resources

USDA NRCS
Natural Resources Conservation Service

NORTHEASTERN AREA

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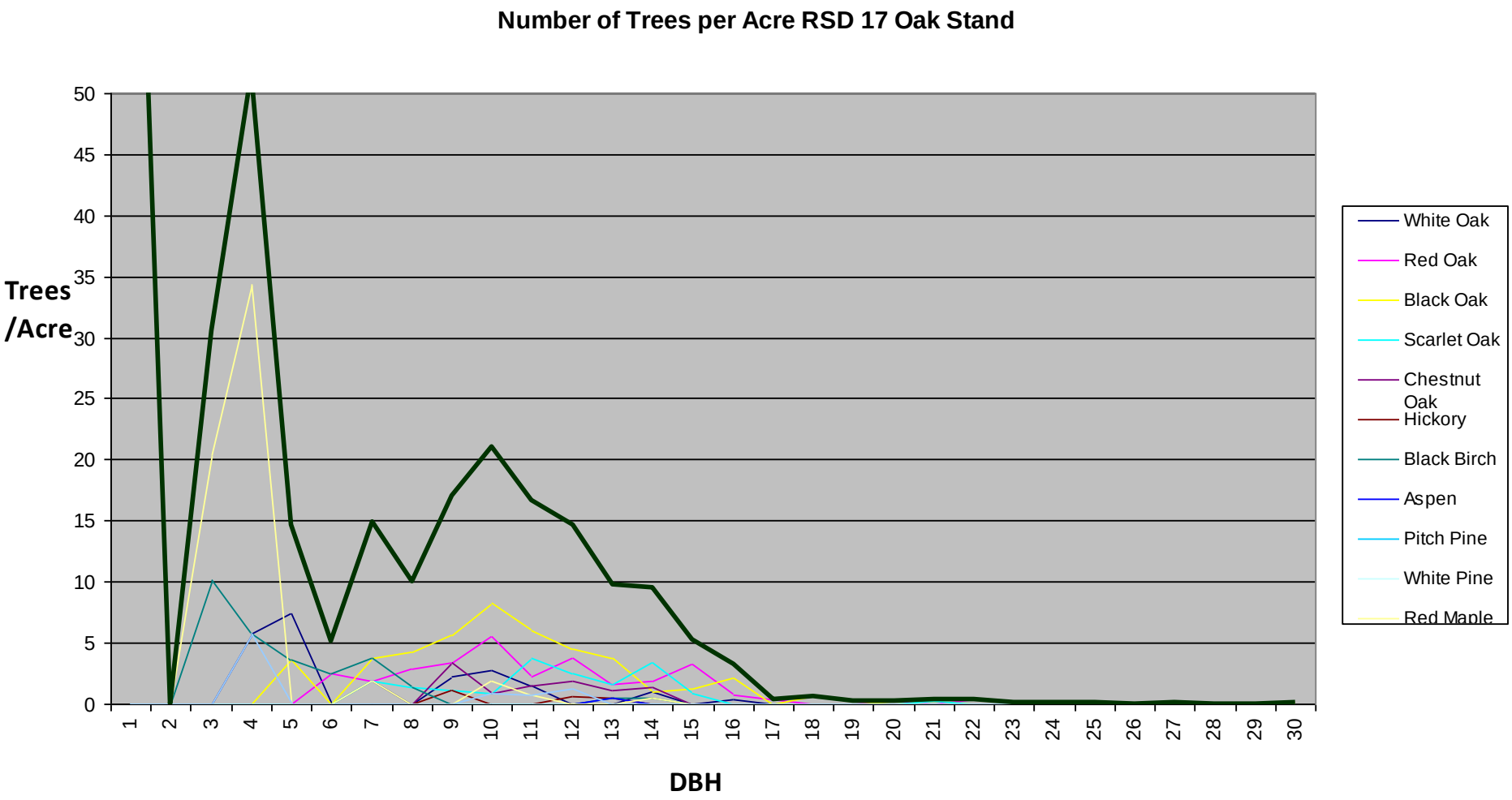
Sources: ESRI, NRCS, CT DEP, UConn Extension
Projection: CT State Plane (Feet) NAD83
Project Design: Kyle Drennen, Joel Stocker, Thomas Worthley

Stand Table for RSD 17 Oak Stand — Number of Trees per acre, Species X Diameter (#trees tallied X cf / #plots)

# of plots	20

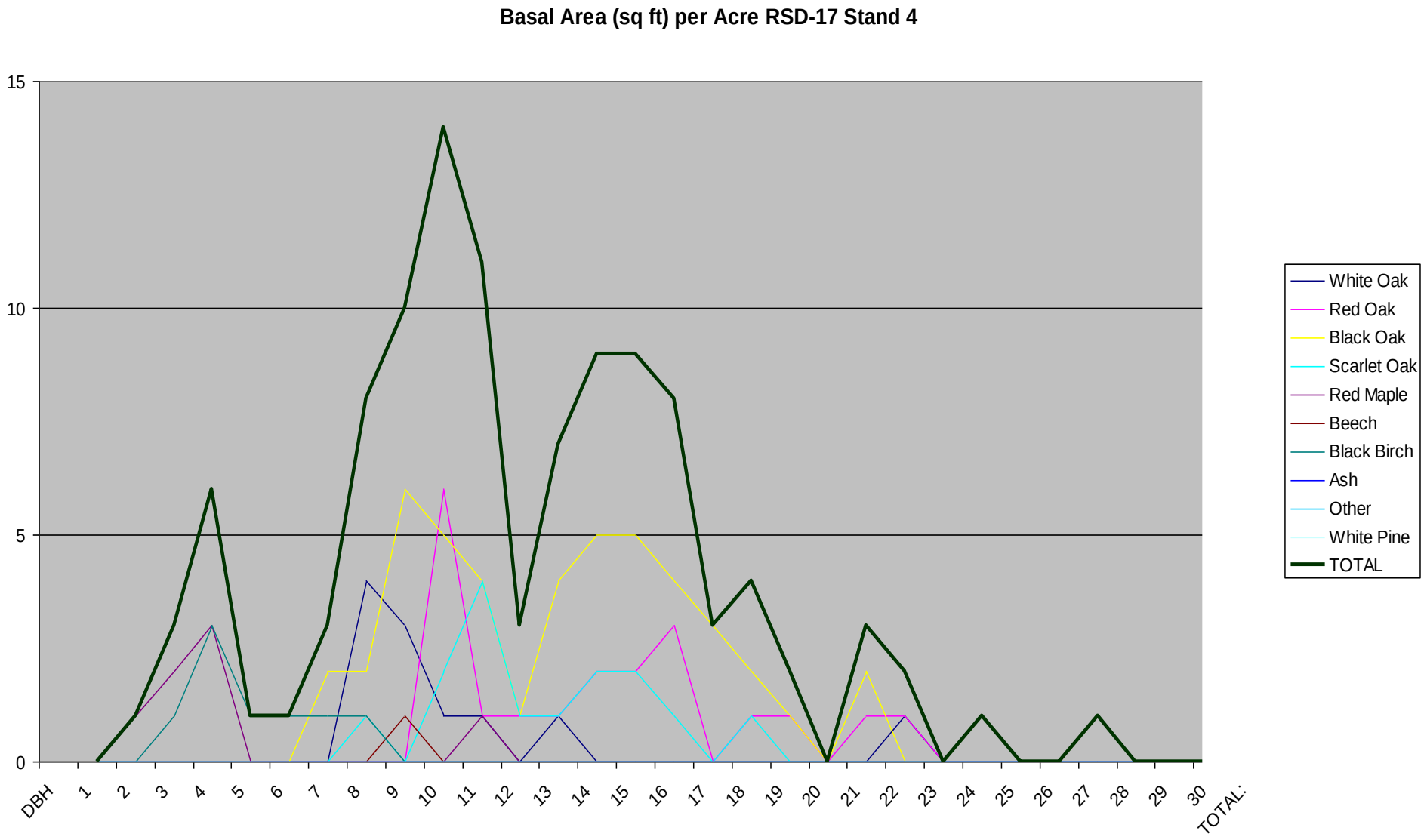
Species / DBH	White Oak	Red Oak	Black Oak	Scarlet Oak	Chestnut Oak	Hickory	Black Birch	Red Maple	Beech	Aspen	Pitch Pine	White Pine	TOTAL
1	0	0	0	0	0	0	0	92	0	0	0	0	92
2	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	10	20	0	0	0	0	31
4	6	0	0	0	0	0	6	34	6	0	0	0	52
5	7	0	4	0	0	0	4	0	0	0	0	0	15
6	0	3	0	0	0	0	3	0	0	0	0	0	5
7	2	2	4	2	0	0	4	2	0	0	0	0	15
8	0	3	4	1	0	0	1	0	0	0	0	0	10
9	2	3	6	1	3	1	0	0	0	0	0	0	17
10	3	6	8	1	1	0	0	2	1	0	0	0	21
11	2	2	6	4	2	0	0	1	1	0	0	0	17
12	0	4	4	3	2	1	0	0	1	0	0	0	15
13	0	2	4	2	1	1	1	0	0	1	0	0	10
14	1	2	1	3	1	0	0	0	0	0	0	0	10
15	0	3	1	1	0	0	0	0	0	0	0	0	5
16	0	1	2	0	0	0	0	0	0	0	0	0	3
17	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	1	0	0	0	0	0	0	0	0	0	1
19	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL:	23	31	46	18	10	2	28	151	9	1	0	0	319


Number of Trees per Acre RSD 17 Oak Stand
Trees /Acre
50
45
40
35
30
25
20
15
10
5
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
DBH
White Oak
Red Oak
Black Oak
Scarlet Oak
Chestnut Oak
Hickory
Black Birch
Aspen
Pitch Pine
White Pine
Red Maple

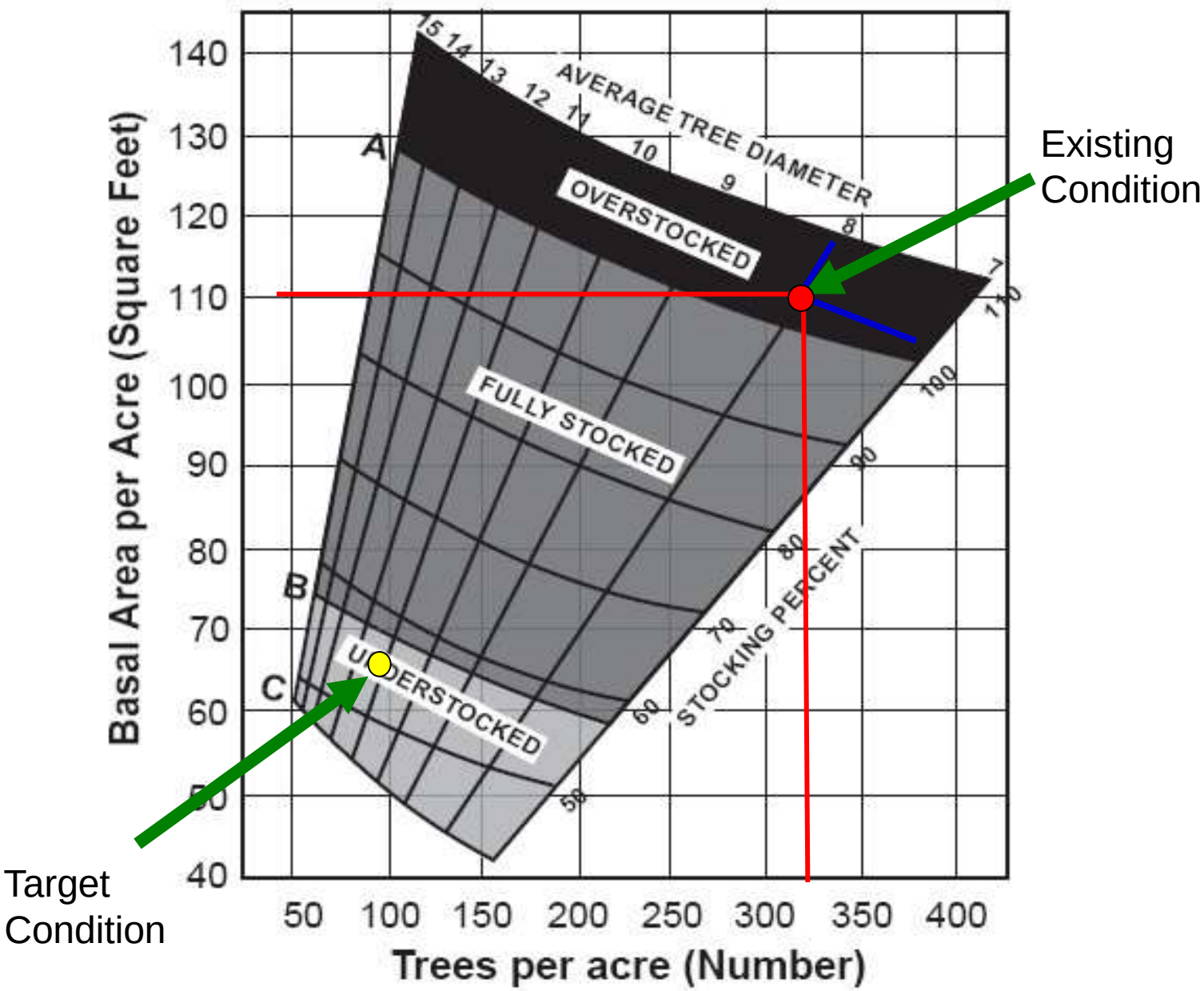
Basal Area Table for RSD-17 Stand 4 — **Square Feet of Basal Area per acre Species X Diameter (#trees tallied X BAF / #plots)**

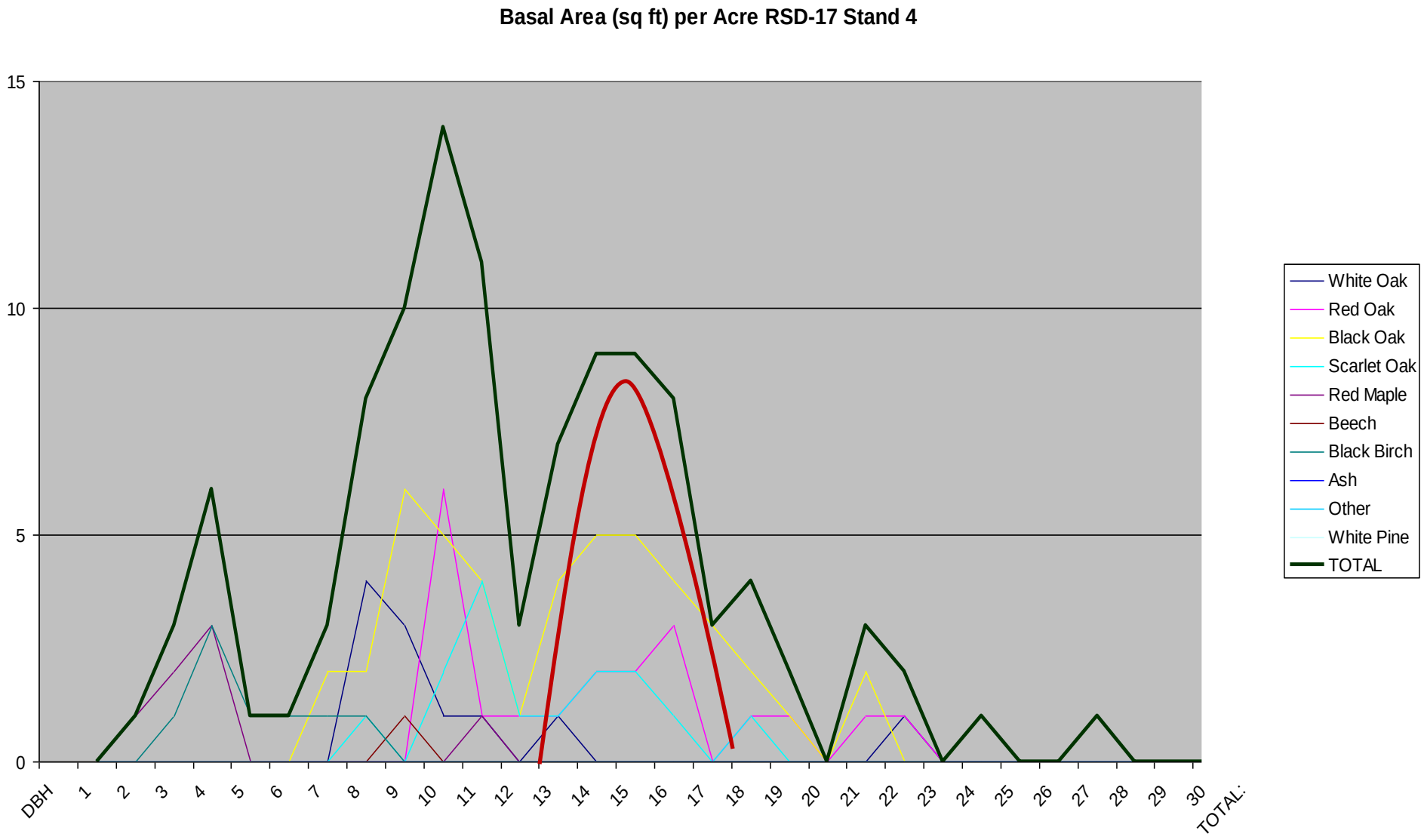
BAF	10	# of Plots	10

Species / DBH	White Oak	Red Oak	Black Oak	Scarlet Oak	Red Maple	Beech	Black Birch	Ash	Other	White Pine	TOTAL
1	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	1	0	0	0	0	0	1
3	0	0	0	0	2	0	1	0	0	0	3
4	0	0	0	0	3	0	3	0	0	0	6
5	0	0	0	0	0	0	1	0	0	0	1
6	0	0	0	0	0	0	1	0	0	0	1
7	0	0	2	0	0	0	1	0	0	0	3
8	4	0	2	1	0	0	1	0	0	0	8
9	3	0	6	0	0	1	0	0	0	0	10
10	1	6	5	2	0	0	0	0	0	0	14
11	1	1	4	4	1	0	0	0	0	0	11
12	0	1	1	1	0	0	0	0	0	0	3
13	1	1	4	1	0	0	0	0	0	0	7
14	0	2	5	2	0	0	0	0	0	0	9
15	0	2	5	2	0	0	0	0	0	0	9
16	0	3	4	1	0	0	0	0	0	0	8
17	0	0	3	0	0	0	0	0	0	0	3
18	0	1	2	1	0	0	0	0	0	0	4
19	0	1	1	0	0	0	0	0	0	0	2
20	0	0	0	0	0	0	0	0	0	0	0
21	0	1	2	0	0	0	0	0	0	0	3
22	1	1	0	0	0	0	0	0	0	0	2
23	0	0	0	0	0	0	0	0	0	0	0
24	0	0	1	0	0	0	0	0	0	0	1
25	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0
27	0	0	1	0	0	0	0	0	0	0	1
28	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0
TOTAL:	11	20	48	15	7	1	8	0	0	0	110


Basal Area (sq ft) per Acre RSD-17 Stand 4
15
10
5
0
DBH
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
TOTAL:
White Oak
Red Oak
Black Oak
Scarlet Oak
Red Maple
Beech
Black Birch
Ash
Other
White Pine
TOTAL

Upland Central Hardwood Stocking Guide[2]




Basal Area (sq ft) per Acre RSD-17 Stand 4
15
10
5
0
DBH
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
TOTAL:
White Oak
Red Oak
Black Oak
Scarlet Oak
Red Maple
Beech
Black Birch
Ash
Other
White Pine
TOTAL

Boldly go…

Thank You