

TREE #	SPECIES	coordinates		ingrowthyr	censinyr	deathyr	censoryr										
		x	y					1931	1936	1941	1945	1954	1961	1965	1973	1978	1983
7	CO	30.5	3.0		1931			4.3	4.7	5.1	5.5	5.7	6.4	6.6	7.2	8.2	8.2
12	RO	59.5	1.5		1931			1.1	1.6	1.9	2.1	2.4	2.8	2.8	3.3	3.8	4.1
16	CO	57.5	46.5		1931			5.3	5.7	6.2	6.5	7.0	7.6	7.8	8.2	8.5	8.8
24	CO	40.0	59.5		1931			6.1	6.2	6.4	6.7	6.9	7.0	7.2	7.4	7.5	7.6
28	RM	17.0	47.5		1931			2.1	2.2	2.2	2.3	2.4	2.9	2.9	3.4	3.9	4.0
31	RO	2.0	35.0		1931			6.2	7.1	8.1	8.7	9.8	11.0	11.4	12.3	13.1	13.8
33	CO	2.0	20.5		1931			9.0	9.4	9.8	10.2	10.6	11.3	11.5	12.1	12.4	12.6
38	CO	9.5	34.0		1931			6.4	6.9	7.6	7.8	8.5	9.1	9.3	9.8	10.2	10.7
55	CO	39.0	30.5		1931			3.3	3.5	3.6	3.9	4.0	4.2	4.3	4.5	4.8	4.8
58	CO	36.0	23.0		1931			5.3	5.5	5.9	6.2	6.5	6.8	7.0	7.5	8.0	8.3
60	CO	33.5	9.0		1931			3.9	4.1	4.4	4.5	4.8	5.2	5.2	5.5	5.6	5.7
67	BB	59.0	10.0	1961									4.2	4.3	5.1	5.9	6.5
68	RO	8.0	17.5	1973											2.4	2.6	2.9
71	RO	16.5	5.0	1973											1.7	1.8	1.9
78	SB	59.5	40.5	1973											2.2	2.4	2.7
79	SB	60.0	40.5	1973											1.8	2.2	2.5
80	BB	57.5	46.5	1973											1.5	2.0	2.4
81	RO	50.0	37.0	1973											2.1	2.5	2.9
82	RM	37.0	49.0	1973											2.3	2.9	3.4
83	RO	10.5	27.5	1973											1.9	2.2	2.4
85	SB	20.0	52.0	1973											3.1	3.5	3.8
86	RM	27.5	52.0	1973											3.7	4.4	4.9
87	RM	40.5	21.5	1973											1.5	1.7	1.7
88	RM	60.0	57.0	1983													2.0
90	RO	51.0	62.0	1983													2.2

TREE #	SPECIES	x	y	ingrowthyr	censinyr	deathyr	censoryr	1931	1936	1941	1945	1954	1961	1965	1973	1978	1983
92	RM	39.0	62.0	1983													1.0
93	RO	34.0	64.5	1983													1.5
94	RM	17.0	47.5	1983													1.5
96	RM	5.5	36.5	1983													1.1
97	RM	4.5	35.0	1983													1.2
99	RM	32.5	48.0	1983													1.3
104	RO	5.0	1.0	1983													1.5
105	RO	5.0	1.0	1994		2010											
106	SB	54.0	3.0	1994													
107	RO	35.5	3.5	1988													
108	RM	4.0	19.5	1988													
110	RM	52.5	45.0	1999													

diameter at breast height (in)																					
1988	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
8.5	9.0	9.2	9.4	9.4	9.4	9.4	9.5	9.7	9.8	9.8	9.9	10.0	10.0	10.2	10.2	10.3	10.3	10.4	10.5	10.6	10.5
4.5	4.9	4.9	5.0	5.0	5.0	5.0	5.1	5.2	5.2	5.3	5.3	5.5	5.7	5.8	6.0	6.1	6.1	6.1	6.1	6.2	6.1
9.0	9.5	9.5	9.7	9.7	9.7	9.7	9.8	9.9	9.9	10.1	10.2	10.1	10.1	10.3	10.5	10.5	10.6	10.6	10.6	10.8	10.9
7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.8	7.8	7.8	7.9	7.9	7.9	7.9	7.9	8.0	8.0	8.1	8.1	8.1	8.1
4.4	5.0	5.1	5.1	5.2	5.2	5.3	5.4	5.7	5.7	5.8	6.0	6.1	6.2	6.3	6.7	6.7	6.7	6.9	6.9	6.9	6.9
14.9	15.7	15.9	16.1	16.3	16.4	16.5	16.6	16.9	17.0	17.1	17.2	17.3	17.5	17.8	18.0	18.3	18.6	18.6	18.7	18.9	19.2
12.9	13.2	13.2	13.4	13.5	13.5	13.5	13.6	13.6	13.7	13.8	13.8	13.8	13.9	14.0	14.1	14.3	14.3	14.5	14.5	14.6	14.7
11.0	11.5	11.6	11.7	11.8	11.8	11.9	12.0	12.0	12.2	12.2	12.2	12.3	12.4	12.5	12.6	12.6	12.9	12.9	12.9	13.1	13.1
4.9	5.1	5.1	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.3	5.3	5.3	5.5	5.4	5.4	5.5	5.5	5.6	5.7	5.7
8.6	9.1	9.1	9.3	9.3	9.3	9.4	9.5	9.5	9.6	9.8	9.8	9.8	9.9	10.1	10.1	10.3	10.3	10.5	10.6	10.7	10.8
6.0	6.4	6.4	6.5	6.5	6.6	6.6	6.7	6.7	6.8	6.9	7.0	7.1	7.1	7.3	7.4	7.4	7.5	7.5	7.6	7.8	7.8
6.7	7.1	7.2	7.2	7.2	7.3	7.3	7.3	7.3	7.4	7.4	7.4	7.4	7.5	7.5	7.6	7.6	7.7	7.8	7.9	8.0	8.0
3.2	3.7	3.7	3.8	3.9	4.0	4.0	4.1	4.3	4.5	4.6	4.8	5.0	5.2	5.5	5.7	5.7	5.8	5.8	5.8	5.9	5.9
2.0	2.4	2.5	2.5	2.6	2.6	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.2	3.4	3.6	3.8	3.9	4.0	4.1	4.4	4.3
3.0	3.3	3.3	3.4	3.4	3.5	3.5	3.6	3.7	3.7	3.8	3.8	3.9	4.0	4.1	4.1	4.3	4.4	4.4	4.5	4.5	4.5
2.6	2.8	2.8	2.8	2.9	2.9	3.0	3.1	3.1	3.1	3.2	3.2	3.2	3.3	3.4	3.4	3.5	3.5	3.6	3.6	3.7	3.7
2.9	3.4	3.4	3.4	3.5	3.6	3.6	3.7	3.7	3.7	3.8	3.8	3.9	3.9	4.0	4.0	4.1	4.3	4.4	4.5	4.6	4.7
3.4	3.9	4.0	4.1	4.1	4.2	4.2	4.3	4.4	4.4	4.5	4.6	4.7	4.7	4.8	4.9	5.0	5.2	5.2	5.3	5.4	5.4
3.7	4.1	4.7	4.8	4.9	5.0	5.1	5.2	5.2	5.3	5.5	5.6	5.7	5.8	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8
2.6	2.9	2.9	3.0	3.1	3.1	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.7	3.9	4.0	4.1	4.2	4.2	4.3	4.2	4.2
4.0	4.7	4.7	4.8	4.9	5.0	5.0	5.1	5.3	5.5	5.7	5.9	6.0	6.2	6.4	6.5	6.6	6.8	6.9	7.0	7.1	7.1
5.4	6.2	6.3	6.4	6.5	6.5	6.5	6.5	6.5	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.7	6.7	6.6	6.6	6.6	6.6
1.7	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.2	2.4	2.6	2.8	3.0	3.1	3.2	3.3	3.5	3.6
2.3	2.5	2.5	2.6	2.6	2.6	2.6	2.6	2.6	2.7	2.7	2.7	2.7	2.7	2.7	2.0	2.8	2.8	2.8	3.8	4.4	2.8
2.5	3.1	3.2	3.3	3.4	3.6	3.6	3.7	3.9	3.9	4.1	4.3	4.5	4.6	4.9	5.1	5.3	5.4	5.5	5.6	5.7	5.8

1988	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
1.7	1.8	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.2	2.3	2.3	2.3	2.4	2.4	2.4
1.6	1.7	1.7	1.7	1.7	1.7	1.7	1.8	1.8	1.8	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
1.2	1.3	1.3	1.3	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
1.5	1.8	1.8	1.8	1.8	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
1.6	1.7	1.7	1.7	1.8	1.8	1.8	1.8	1.8	1.9	2.0	2.0	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.6	2.7	2.8
	1.3	1.4	1.4	1.4	1.4	1.4	1.5	1.5	1.5	1.6	1.7	1.7	1.7	1.8	1.8	1.8					0.7
	1.2	1.2	1.2	1.3	1.3	1.3	1.4	1.4	1.5	1.6	1.7	1.8	1.8	1.9	2.2	2.5	2.6	3.3	3.3	3.3	3.4
2.3	2.9	3.0	3.1	3.1	3.1	3.1	3.2	3.3	3.4	3.5	3.5	3.6	3.7	3.9	4.1	4.1	4.1	4.2	4.2	4.2	4.2
1.5	2.1	2.1	2.2	2.2	2.4	2.4	2.4	2.5	2.5	2.6	2.7	2.8	3.0	3.1	3.1	3.5	3.6	3.7	3.8	3.9	4.0
						0.8	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.0	1.0	1.0	1.0	1.0	1.1	1.1

		height (ft)		canopy class																	
2015	2016	1998	2001	1931	1936	1941	1945	1954	1961	1965	1973	1978	1983	1988	1994	1995	1996	1997	1998	1999	2000
10.6	10.6	51	52	d	d	c	i	c	c	c	d	d	d	d		d			d	d	d
6.2	6.2	46	54	s	s	s	s	s	s	s	s	s	s	s		c/d			d	c	i
10.9	11.1	64	69	d	d	d	d	d	c	d	d	d	d	d		d			d	d	c/d
8.1	8.2	33	30	i	i	i	i	i	i	i	i	i	i	s		i			i	i	i
7.0	7.0	36	42	s	s	s	s	s	s	s	s	s	s	s		i			i	i	i
19.4	19.5	69	71	d	d	c	d	d	d	d	d	d	d	d		d			d	d	d
14.7	14.7	62	63	d	d	c	c	d	d	d	d	d	d	d		d			d	d	d
13.1	13.2	69	73	d	d	c	c	d	c	d	c	d	d	d		d			d	d	d
5.7	5.7	33	33	s	s	s	s	s	s	s	s	s	i	s		i			i	i	i
10.9	10.9	39	43	d	d	s	i	i	i	i	c	c	c	c		c/d			d	c	c
7.8	7.9	38	38	c	c	c	i	i	s	i	i	i	i	i		c			d	c	c
8.1	8.1	47	59							i	i	i	i	i		c/d			d	c	c
5.9	5.9	34	37								s	s	s	s		i			i	i	i
4.4	4.5	15	17								s	s	s	s		s			s	s	s
4.6	4.6	32	30								s	s	s	s		s			s	s	s/i
3.8	3.8	28	24								s	s	s	s		s			s	s	s
4.7	4.7	35	35								s	s	s	s		i			i	i	i
5.5	5.5	32	33								s	s	s	s		i			i	i	i
6.9	6.8	40	49								i	i	i	i		c/d			d	c	c
4.3	4.3	30	34								s	s	s	s		i			i	i	i
7.3	7.3	28	31								s	s	s	s		i			i	i	i
6.6	6.6	40	41								s	s	s	s		c/d			d	c	i
3.7	3.7	13	20								s	s	s			s			s	s	
2.8	2.8	25	27										s	s		i			i	i	s/i
5.9	6.0	34	40										s	s		i			i	i	c

2015	2016	1998	2001	1931	1936	1941	1945	1954	1961	1965	1973	1978	1983	1988	1994	1995	1996	1997	1998	1999	2000
1.3	1.3	18	16										s	s		s			s	s	s
2.4	2.4	22	24										s	s		s			s	s	s
2.0	2.0	24	25										s	s		s			s	s	s
1.3	dead	10	11										s	s		s			s	s	s
1.4	dead	17	18										s	s		s			s	s	s
2.1	2.1	26	29										s	s		i			i	i	s
2.9	2.9	12	15										s	s		s			s	s	s
0.7	0.8	12	16													s			s	s	s
3.4	3.4	12	10													s			s	s	s
4.3	4.3	31	33																		
4.1	4.1	24	29											s		i			i	i	i
1.1	1.1	9																		s	s

2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	1931	1936	1941
c/d	d		d	d	d	c		c	c	c	c	c	c	c	c			
c/i	i/c		c	i	i	c		s	s	s	s	s	s	s	s			
d	d		c	c	c	d		c	c	c	c	c	c	c	c			
s	i		i	c	c	i		i	c	c	c	i	c	c	c			
i	i		i	i	i	i		i	i	i	i	i	i	i	i			
d	d		d	d	d	d		d	c	c	c	c	c	c	c			
d	d		d	d	d	d		c	c	c	c	c	c	c	c			
d	c		c	d	d	d		c	c	c	c	i	c	c	c			
i	i		i	i	i	i		i	s	s	s	s	s	s	s			
c	c		c	c	c	c		c	c	c	c	i	c	c	c			
c	c		c	c	c	c			c	c	c	s	s/i	c	i			
c	c		c	c	c	i		i	i	c	c	i	i	i	s			
i	i		i	c	c	i		i	i	s	s	s	s	s	s			
s	s		i	s	s	i		i	i	i	i	i	i	i	i			
s	s		i	s	s	s		i	s	s	s	s	s	s	s			
s	s		s	s	s	s		s	s	s	s	s	s	s	s			
i	i		i	i	i	s		s	s	s	s	s	s	s	s			
i	i		i	i	i	i		s	s	s	s	s	s	s	s			
i/c	c		c	c	c	c		i	c	c	c	c	c	c	c			
s	i		i	i	i	i		s	s	s	s	s	s	s	s			
s	i		i	i	i	s		i	s	s	s	s	s	s	s			
i			i	c	c	c		i	s	i/c	c	i	i	i	i			
			i	s	s	i		i	s	s	s	s	s	s	s			
s	i		i	s	s	s		s	s	s	s	s	s	s	s			
c	c		c	c	c	c		c	i/c	i/c	c	i	c	c	c			

2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	1931	1936	1941
s	s		s	s	s	s		s	s	s	s	s	s	s	s			
s	s		s	s	s	s		s	s	s	s	s	s	s	s			
s	s		s	s	s	s		s	s	s	s	s	s	s	s			
s	s		s	s	s	s		s	i	i	s	s	s	s				
s	s		s	s	s	s		s	s	s	s	s	s	s				
s	s		i	s	s	i		s	s	s	s	i	s	s	s			
s	s		s	s	s	s		s	s	s	s	s	s	s	i			
s	s		s	s	s	s							s	s	s			
s	s		s	s	s	s		i	s	s	s	s	s	s	s			
	s		s	s	s	i		i	i	i	i	i	i	s	s			
i	i		s	s		s		s	s	s	s	s	s	s	s			
s			s	s	s	s		s	s	s	s	s	s	s	s			





1945	1954	1961	1965	1973	1978	1983	1988	1994	1995	1996
							sprout of 28			
				near 2						

notes										
1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
					thinning					moss and lich
										moss and lich
										moss at base
										moss at base
					weak					weak
										moss and lich
										moss and lich
										moss and lich
										moss and lich
										moss and lich
										moss and lich
										moss and lich
										moss and lich
										clean
										moss and lich
										moss and lich
										moss and lich
										moss at base
										some moss a
		near 38			near 38					clean
										moss and lich
		declining								dying, moss, l
		declining	dead							moss at base
										moss at base
										moss at base

1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
										some moss at
										moss at base
					by 28					by 28
				dead top						top dead, mos
										clean
										moss at base
										some moss a
					spout from 104					clean, from 10
	two stems oth	near 62	1.4 and 1.2 fr	second stem is 1.3			measured under branch			moss at base
					second stem of "10c"					moss and lich
					was 8a					
		near 16		alive	dead, near 28					near 28

2008	2009	2010	2011	2012	2013	2014	2015
top dead					needs paint		
snapped	topped				needs paint		
broken branches					needs paint		
top off					needs paint		
top broken					needs paint		
en as base					needs paint		
en on trunk					needs paint		
top broken					needs paint		
en on trunk					needs paint		
branches broken					needs paint		
damage					needs paint		
en on trunk					needs paint		
top split			broken top		needs paint		
					needs paint only 7 visible		
bent over		bent over	bending crazily				
broken branch							
en on trunk							
broken			needs paint				
top broken			broken top				
bent over					needs paint		
bent over	leaning top				needs paint		
					bent over by 62		
snapped top			broken top		broken		dead top
			needs new tag or paint		needs paint		

2008	2009	2010	2011	2012	2013	2014	2015
base, hole in base					needs paint		
					needs paint		
bent over	top on ground				bent over, dead top		
top broken	dead top				dead top		dead top... ali
bent over		needs new tag			needs paint		maybe dead.
	leaning	topped	broken		broken top		
nd lichen					needs paint		
4	toppled/dead				needs paint		next to 104
split trunk		bent over	new paint line		bent over top		
broken		topped			needs paint		
					needs paint		
					needs paint		

Notes
<b>2016</b>
Canopy class difficult to determine
poor condition... dying?
partly uprooted
just barely tall enough to be co-dominant

2016
deaad
dead
lower branches dead



Plot 4a-2c White Oak control. Rectangular plot established in 1931, size is 4112 square feet approx. 66 feet by 66 feet).

Latitude- 41 24 09.19121 N

Longitude- 74 01 10.11858 W

Tree number- unique number assigned to each tree and painted on bark

Species- RO (red oak, *Quercus rubra*), CO (chestnut oak, *Quercus prinus*), SO (scarlet oak, *Quercus coccinea*), BO (black oak, *Quercus velutina*),

Coordinates- measured in feet from plot corner

Ingrowthyr- year when ingrowth was first recorded

Censinyr- left censored yr (present in plot when first sampled)

Deathyr- year when death was first recorded

Censoryr- right censoring (e.g., cut down)

Diameter at breast height- trunk diameter in inches rounded to the nearest tenth. Measured with diameter tape at painted line on all live trees 0.5 inch

Height- vertical distance in feet from ground to live top as measured with clinometer or laser rangefinder

Canopy class- d= dominant, c= codominant, i= intermediate, s= suppressed (or overtopped)

Selected references: Tryon, H.H. 1939. Ten-year progress report 1928 - 1938. Black Rock Forest Bulletin No. 10, Cornwall, NY. Lorimer, C.G. 1981.

WO (white oak, *Quercus alba*), SM (sugar maple, *Acer saccharum*), RM (red maple, *Acer rubrum*), MW (moosewood, *Acer pensylvanicum*), BB (bl

ies or greater dbh at line, generally after July 15 of each year to represent end of year measurement, sometimes measured as late as spring of followi

Survival and growth of understory trees in oak forest of the Hudson Highlands, New York. Canadian Journal of Forest Research 11: 689-695. Schuste

ack birch, *Betula lenta* ), GB (gray birch, *Betula populifolia* ), YB (yellow birch, *Betula allagheniensis* ), PH (pignut hickory, *Carya glabra* ), SH (shagbark

ng year (9/27/31, 7/14/36, 10/16/41, 5/17/46, 12/15/54, 8/15/61, 11/4/65, 7/27/73, 6/29/78, 10/26/83, 12/21/88, 7/11/94, 7/10/95, 7/31/96, 8/7/97, 7/31/98)

er, W.S.F., K.L. Griffin, H. Roth, M.H. Turnbull, D. Whitehead and D.T. Tissue. 2008. Changes in composition, structure, and aboveground biomass over

hickory, *Carya ovata* ), BA (basswood, *Tilia americana* ), CH (American chestnut, *Castanea dentata* ), HM (eastern hemlock, *Tsuga canadensis* ), SB (sh

98, 7/22/99, 4/1/01, 8/8/01, 8/13/02, 8/1/03, 7/26/04, 9/05, 8/06, 10/29/07, 5/2/08 (ht), ?/09, ?/10, 11/16/11, ?/12, 8/29/13, 9/12/14)

over seventy-six years (1930-2006) in the Black Rock Forest, Hudson Highlands, southeastern New York State. *Tree Physiology* 28: 537-549. Cohen, J.

redbush, *Amelanchier canadensis*), WA (white ash, *Fraxinus americana*), BG (black gum, *Nyssa sylvatica*), BE (American beech, *Fagus grandifolia*).

E., M. Xu, and W.S.F. Schuster. 2013. Stochastic multiplicative population growth predicts and interprets Taylor's power law of fluctuation scaling. *Pro*

, BC (black cherry, *Prunus serotina*), DW (dogwood, *Cornus florida*), AL (alder, *Alnus rugos*

ceedings of the Royal Society B 280: 1757 (2012-2955).

**White Oak 4a-2c Control**

Date:

Observers:

TREE #	SPECIES	coordinates		DBH (in)			CC			Notes	
		x	y	2013	2014	2015	2013	2014	2015	2014	2015
7	CO	30.5	3.0	10.6	10.5	10.6	c	c	c		
12	RO	59.5	1.5	6.2	6.1	6.2	s	s	s		
16	CO	57.5	46.5	10.8	10.9	10.9	c	c	c		
24	CO	40.0	59.5	8.1	8.1	8.1	i	c	c		
28	RM	17.0	47.5	6.9	6.9	7.0	i	i	i		
31	RO	2.0	35.0	18.9	19.2	19.4	c	c	c		
33	CO	2.0	20.5	14.6	14.7	14.7	c	c	c		
38	CO	9.5	34.0	13.1	13.1	13.1	i	c	c		
55	CO	39.0	30.5	5.7	5.7	5.7	s	s	s		
58	CO	36.0	23.0	10.7	10.8	10.9	i	c	c		
60	CO	33.5	9.0	7.8	7.8	7.8	s	s/i	c		
67	BB	59.0	10.0	8.0	8.0	8.1	i	i	i		
68	RO	8.0	17.5	5.9	5.9	5.9	s	s	s		
71	RO	16.5	5.0	4.4	4.3	4.4	i	i	i		
78	SB	59.5	40.5	4.5	4.5	4.6	s	s	s		
79	SB	60.0	40.5	3.7	3.7	3.8	s	s	s		
80	BB	57.5	46.5	4.6	4.7	4.7	s	s	s		
81	RO	50.0	37.0	5.4	5.4	5.5	s	s	s		
82	RM	37.0	49.0	6.7	6.8	6.9	c	c	c		
83	RO	10.5	27.5	4.2	4.2	4.3	s	s	s		
85	SB	20.0	52.0	7.1	7.1	7.3	s	s	s		
86	RM	27.5	52.0	6.6	6.6	6.6	i	i	i		
87	RM	40.5	21.5	3.5	3.6	3.7	s	s	s		
88	RM	60.0	57.0	4.4	2.8	2.8	s	s	s		dead top
90	RO	51.0	62.0	5.7	5.8	5.9	i	c	c		

**White Oak 4a-2c Control**

Date:

Observers:

TREE #	SPECIES	coordinates		DBH (in)			CC			Notes	
		x	y	2013	2014	2015	2013	2014	2015	2014	2015
92	RM	39.0	62.0	1.3	1.3	1.3	s	s	s		
93	RO	34.0	64.5	2.4	2.4	2.4	s	s	s		
94	RM	17.0	47.5	2.0	2.0	2.0	s	s	s		
96	RM	5.5	36.5	1.3	1.3	1.3	s	s	s		dead top... alive?
97	RM	4.5	35.0	1.4	1.4	1.4	s	s	s		maybe dead. Barely alive?
99	RM	32.5	48.0	2.1	2.1	2.1	i	s	s		
104	RO	5.0	1.0	2.7	2.8	2.9	s	s	s		
105	RO	5.0	1.0		0.7	0.7		s	s		next to 104
106	SB	54.0	3.0	3.3	3.4	3.4	s	s	s		
107	RO	35.5	3.5	4.2	4.2	4.3	i	i	s		
108	RM	4.0	19.5	3.9	4.0	4.1	s	s	s		
110	RM	52.5	45.0	1.1	1.1	1.1	s	s	s		