

NATL Upland Pine Restoration, 1995-2008

50 Meter Grid

Locations in NATL can be specified by reference to a grid system based on north-south gridlines (A to L) and east-west gridlines (1 to 12). Gridlines of each type are 50 meters apart. Each grid intersection is identified by the two gridlines that establish it (e.g. E5 or K12). Each 50x50 meter block established by the gridlines is identified by the grid point in its northwest corner (e.g. block D7 is immediately north of Division Trail and immediately east of the DPI compound).

Public and Restricted Areas

All parts of NATL north of Division Trail are open to the public from dawn to dusk. The area south of Division Trail is limited to academic uses as explained at <http://natl.ifas.ufl.edu/rules>.

Trails

Major named trails are indicated by double dashed lines. Single dashed lines indicate lesser trails that also serve as fire lanes or the boundaries between successional plots.

Successional Plots

Large, outlined letters identify the 5 successional plots. Plots A and D are tilled every 10 years, and Plots C and E are tilled every 40 years. Plot B is tilled in years when no other plot is tilled.

Most recent year (and next year) for tillage of successional plots

Plot A	2002 (2012)
Plot B	2003 (2004)
Plot C	2000 (2040)
Plot D	1997 (2007)
Plot E	----- (2020)

Public Area Pine (n and s)

Burns

- 10 Apr 1996
- 12 Mar 1998
- 4 Feb 2000
- 6 Mar 2002
- 18 Feb 2004
- 2 Mar/14 Apr 2005
- 5 Mar 2007
- 18 Jun 2008

Undergrowth "mulched"
2003

LL pines planted [survivors]
2003: 248 1-gal [4]
2004: 52 2m-tall [16]
2005: 289 1-gal [167]

Unwanted hardwoods herbicided
2008

Wiregrass slips planted
1997: 330
2004: 295
2006: 600
2007: 342
2008: 800

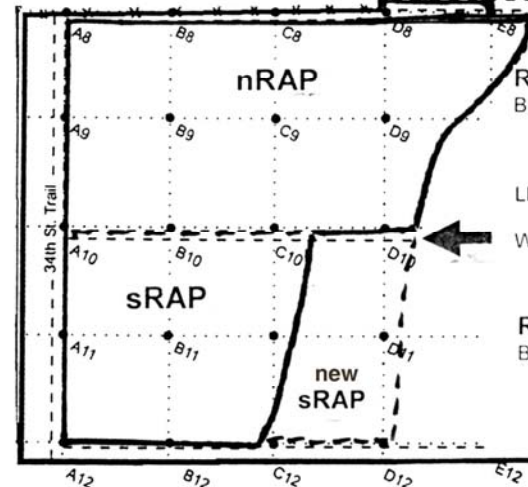
Restricted Area Pine (n and s)

Burns

- 18 Feb 2004 (poor & spotty)
- 2 Mar 2005 (spotty)

Undergrowth "mulched"
2003
2006

Wiregrass slips planted
2004: 500
2005: 500
2006: 400



Restricted Area Pine (north)

Burns

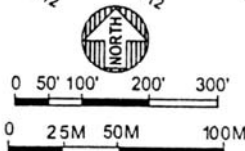
- 5 Mar 2007 (good)
 - 11 Apr 2008 (spotty)
 - 18 Jun 2008 (good)
- LL pines planted [survivors]
2007 1742 containerized [0]

Wiregrass slips planted
2007: 342
2008: 1200

Restricted Area Pine (south)

Burns

- 16 Mar 1999 (poor & very spotty)
- 8 Aug 2007 (very spotty)



Base map courtesy of
U.F. Physical Plant Division
Architecture/Engineering

Grid surveyed by
U.F. Student Geomatics Assoc.

Principal events in restoration of NATL's upland pine: 1995-2008

(A more detailed account is at <http://natl.ifas.ufl.edu/UPmanage.htm>)

T. J. Walker, 3 Apr 2009

Numbers in brackets are the current survivors of past plantings.

Control of laurel oaks by cutting and girdling began in 1995. Starting in spring 2000, the herbicide Garlon 3A was applied to new stumps and girdles. In 2006, basal stem spraying with Garlon 4 was used to reduce the numbers of laurel oak root sprouts in the Public Area Pine..

Public Area Pine (=nPAP and sPAP; = Long's Blocks A and B), 2.9+1.5=4.4 acres

10 Apr 1996	1 st controlled burn
May, June 1997	330 wiregrass plugs planted [ca 30]; 460 forb plugs planted [?]
12 Mar 1998	2 nd controlled burn
4 Feb 2000	3 rd controlled burn
13 Dec 2001	1250 containerized longleaf pines planted [0]
6 Mar 2002	4 th controlled burn
May to July 2003	248 1-gal longleaf pines planted [4]
June, July 2003	"Mega-mulcher" levels oak re-growth, stumps, and down wood
18 Feb 2004	5 th controlled burn
May, June 2004	295 wiregrass clumps planted [?]
June, July 2004	50 small turkey oaks planted [<10]
July 2004	52 "2-m" longleaf pines planted [16]
2 Mar/14 Apr 2005	6 th controlled burn of south/north Public Area Pine
June 2005	50 wiregrass clumps planted [?]
June, July 2005	289 1-gal longleaf pines planted in 48 sets [167]
Jan 2006	thousands of longleaf seedlings evident
April 2006	130 longleaf seedlings flagged in 65 plots for protection from controlled burn and/or drought [9]
July 2006	600 wiregrass plugs planted [>250]
17 Sep 2006	Upland Pine Self-Guided Nature Trail opened to the public
5 Mar 2007	7 th controlled burn
July 2007	342 wire grass plugs planted in the 45 north-most sets of 2005 pines [?]
18 Jun 2008	8 th controlled burn; portion of nPAP east of UP Nature Trail not burned
July 2008	800 wiregrass plugs planted [?]
July 08-date	Major effort, mostly by Ken Prestwich, to eliminate unwanted hardwoods and Smilax using Garlon 4 and mechanical means

Restricted Area Pine (=nRAP, sRAP-w; sRAP-e), 5.0+2.7+1.0=8.7 acres
[Long's Blocks C and D = nRAP and sRAP-w]

16 Mar 1999	<i>1st controlled burn (poor and very spotty; south Restricted Area Pine only)</i>
13 Dec 2001	1125 containerized longleaf pines planted [0]
June, July 2003	oak re-growth, stumps, and down wood reduced to mulch by Fla Div. Forestry machine
18 Feb 2004	<i>2nd controlled burn (poor and spotty)</i>
July, Aug 2004	500 wiregrass plugs planted [?]
2 Mar 2005	<i>3rd controlled burn (spotty)</i>
July 2005	500 wiregrass plugs planted [?]
Jan 2006	hundreds of longleaf seedlings evident
Feb 2006	131 longleaf seedlings flagged at 24 sites for protection from controlled burn and/or drought [0?]
May 2006	313 container-grown small longleafs planted at 38 sites [0?]
July 2006	400 wiregrass plugs planted [?]
Aug 2006	20 1-gal longleaf pines planted at 14 sites [0?]
Oct 2006	undergrowth reduced to mulch by Fla Div Forestry machine while avoiding 135 flagged small pines at 60 sites
5 Mar 2007	<i>4th controlled burn (north Restricted Area Pine only)</i>
27 Jun, 6 Jul 2007	742 2nd-year containerized longleaf pines planted in nRAP [0?]
14 Jul 2007	1000 containerized longleaf pines planted in nRAP [0?]
14 Jul 2007	630 wiregrass plugs planted in nRAP [?]
8 Aug 2007	<i>1st summer burn (sRAP only and only in a few places, where fire would carry)</i>
31 Mar 2008	First cutting and girdling of unwanted hardwood in sRAPe
11 Apr 2008	<i>Controlled burn of RAP attempted but with no success except in spots in nRAP</i>
18 Jun 2008	<i>Controlled burn of nRAP (successful; helped by bush-hogging shortly before)</i>
July 2008	1200 wiregrass plugs planted in nRAP [?]