

911 Address
1881 Natural Area Dr,
Gainesville, FL 32608

Burn Manager Cell Number:(407)800-8914
NATL Chair Number: (269)267-4757

**PRESCRIBED BURNING PRESCRIPTION
NATURAL AREA TEACHING LAB
2025 BURN PLAN**

Site: Pavillion Slope, Retention Pond, SEEP Slope Units	Burn Manager: Ross Barreto & Gage Lapierre
Certification Number: 140003	Authorization Number: 2025054286
Date Burn Started: 6-26-2025	Date Burn Completed:
Authorized Date & Time: 6-26-2025 1014M	Acreage: 1.3

BURN UNIT DESCRIPTION:

County: Alachua

Section: 12 **Township:** 10S **Range:** 19E

Latitude and Longitude: 29.632442, -82.369670

NATURAL COMMUNITY DESCRIPTION

General Site Description: Historic upland mixed woodland that has had frequent fire for the past 10+ years. Recently degraded in the last 20 years from construction dumping including lots of clay in the surface. As well as SEEP slope and retention pond with mainly low grassy understories. Understory vegetation is sparse with the main fuel being pine litter from mature loblolly pines. Adjacent to the burn areas is historic hardwood forests that have likely not seen fire for 50 years or so.

Overstory: Mature loblolly pines and occasional oaks and prunus.

Midstory: Little to none in slope and SEEP slope area, retention pond has sparse sweetgums, and a few cabbage palms.

Understory: Pine litter and oak litter as well as low grasses and recently planted longleaf pine seedlings.

Topography and Soils: Mild slopes in every unit with the pavilion slope having a large clay component while all other soils are sandy.

FUEL DESCRIPTION

Surface Fuels: Loblolly pine needle cast, oak litter, and a variety of grasses and forbs. A few 100hr fuels are present in the form of fallen limbs and trees.

Burn History: Burned every 1-3 years for the past 7 years.

Known Duff or Muck Locations: Little to none present besides around the wetter areas of the SEEP.

Additional Safety Concerns: Close proximity to Department of Plant Industry, Florida Natural History Museum, Harn Museum of Art, and Curtis M. Phillips Center for the Performing Arts. As well as possible smoke intrusion on to SW Archer Road and SW 34th Street.

BURN OBJECTIVES

Purpose of Burn: To reduce fuel loads across burn unit and provide a flush of new growth and wildflowers as well as facilitate the recruitment of longleaf pine seedlings.

Preferred Season to Burn: Growing season from late March till early August.



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Desired Intensity: Moderate intensity to kill off younger hickory and oak recruits but allowing for more mature oaks to establish and survive in several areas.

Burn Technique: Backing, flanking, grid ignition, strip heads, spots, and heading fires.

Rate of Spread: No more than 3 chains per hour.

Flame Length: 3-15' with prevention of torching out of any trees.

Acceptable Crown Scorch: 40%

SMOKE MANAGEMENT

Starting Time: 9AM-11AM

Smoke Sensitive Areas: University of Florida, UF Shands Hospital, La Petite Academy of Gainesville, Newberry Christian Community School, Littlewood Elementary School, Westwood Middle School, Fazer School, Idylwild Elementary School, Expressions Learning Arts Academy, SW Archer Road, SW 34th Street, Department of Plant Industry, Florida Natural History Museum, Harn Museum of Art, and Curtis M. Phillips Center for the Performing Arts, The Trails Housing Complex, Steinmetz Hall University of Florida, Gardenview Apartments, Butler Shopping Plaza, I75, Condron Ball Park, and the Katie Seashole Pressly Stadium.

Special Mitigation Concerns: Burn with winds from N, E, or S as well as having a high dispersion and strong transport winds to push smoke towards more rural areas to the West.

Passed Smoke Screening: Yes

PERSONNEL AND EQUIPMENT NEEDS

Minimum Personnel: 3

Minimum Equipment: UTV with water tank on back, and trailer with slide in unit on the back/1 type 6 engine.

WEATHER FACTORS

Weather Parameters	Desired	Predicted
20' Wind Direction	N, NE, E, SE, S	SSE
20' Wind Speed	2-15	3 611
Transport Wind Direction	N, NE, E, SE, S	E
Transport Wind Speed	5-20	7
Min. Mixing Height	1700'	7000
Dispersion Index	30-80	59
Max. Temperature	99F	94
Relative Humidity	30-75%	40
Min. Fine Fuel Moisture	7%	6%
Max. KBDI	500	300-399
LVORI	≤6 or complete ignition by 3PM	8
Days Since 1/2" Rain	1-15	11

Weather Discrepancies: Finish ignition by 1 AM to account for low fine fuel moisture and high LVORI



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CONTINGENCIES

Escape Fire: Evaluate fire behavior. If crew cannot contain fire within 15 minutes or fire is likely to escape property immediately contact Florida Forest Service Waccasassa District (352-395-4951).

Smoke Intrusions: Mitigate by notifying FFS if a problem occurs: they will assess the problem and notify proper law enforcement. UF NATL employees will put smoke/fire signs along Archer Road and 34th Ave as well as putting prescribed fire signs around the property. They will also notify all relevant parties in the university about potential smoke impacts.

L: Everyone is their own lookout, clear view across burn units.

C: Cellular devices and radios set to specific frequency.

E: Main trails back towards pavilion at entrance of NATL.

S: Pavilion at entrance of NATL, SEEP, Steinmetz Hall across road, and the black of already burned areas.

Nearest Water Source: Hose at pavilion, fire hydrant outside of wooden gate, and the SEEP.

MEDICAL PLAN

First Responder/EMT/Paramedic: _____

Gainesville Fire Rescue Station 2 and Gainesville Fire Rescue Station 4: 5-6 minute drive. 2210 SW Archer Rd, Gainesville, FL 32608 and 10 SW 36th St, Gainesville, FL 32607.

Trauma Center and Burn Unit (UF Health Shands): (352)733-0111. 5-minute drive from NATL. 1515 SW Archer Rd, Gainesville, FL 32608

PRE-BURN CHECKLIST

- **1:** Notify neighbors about potential burn within the next week or two.
- **2:** All prescription requisites met
- **3:** Authorization obtained
- **4:** Notify Gainesville fire rescue of prescribed burn happening.
- **5:** Notify UFPD of prescribed burn happening.
- **6:** All equipment and crew are fully functional and have appropriate PPE on scene.
- **7:** Signs put out to ensure safety of public and those using NATL as well as smoke signs to warn and ensure motorists safety.

CREW BRIEFING

- **1:** Objectives of burn
- **2:** Exact area of burn unit including unit size and boundaries. (All crew members have paper maps and possibly avenza maps.)
- **3:** Hazards discussed (volatile fuels, spot potential, weak points in perimeter lines, water sources.)
- **4:** Predicted weather and anticipated fire behavior/ smoke dispersal.
- **5:** Crew assignments clear and understood.
- **6:** Weather monitoring assessment made: _____
- **7:** Ignition techniques and pattern. Holding methods.
- **8:** Location of water sources.



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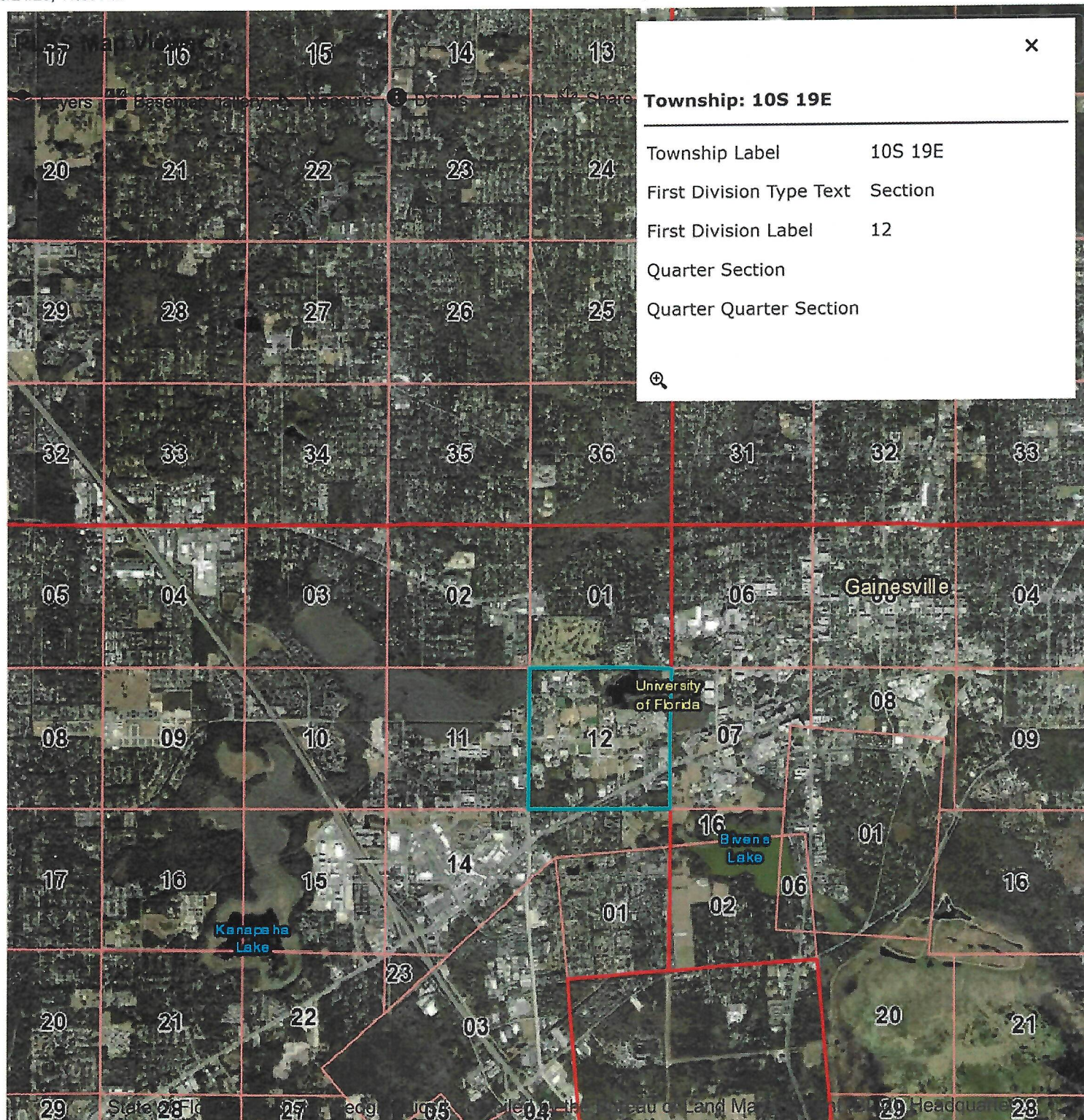
- 9: Authority and communications: radio check and ensure everyone has everyone's number.
- 10: Contingencies covered such as escape routes, safety zones, and escape procedures.
- 11: Sources of nearest assistance. Nearest phone and emergency numbers.
- 12: Special instructions including smoke management, contact with public, and others.
- 13: Safety briefing, Any EMTs on crew and assign a medical first responder in crew.
- 14: LCES clear and understood by all crew.
- 15: Mop-up standards
- 16: Arrange next day inspection and mop-up assignments.
- 17: Questions?
- 18: Crew members given opportunity to decline participation (any allergies or medical/physical factors of crew that may affect performance?)
- 19: Conduct test fire and afterwards determine if fire is a go or no go.

Prescription Prepared By: Ross Barreto	Date/Time Prescription Prepared: 6/25/2025 10:00 AM 9 AM
Burn Manager Signature/Date/Time: Ross Barreto	6-26-2025 10 AM
Prescription Reviewed By: Gage Lapierre	
Start Time: 10:59 AM	Completed Time: 7:30 PM
Time Crew Released: 2:00 PM	Date Fire Declared Out: 6-27-2025

EVALUATION NOTES: Strong W gusts from old field.
fire fuel and topography driven, no much caught in
SEEP.

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PLSS Map Viewer

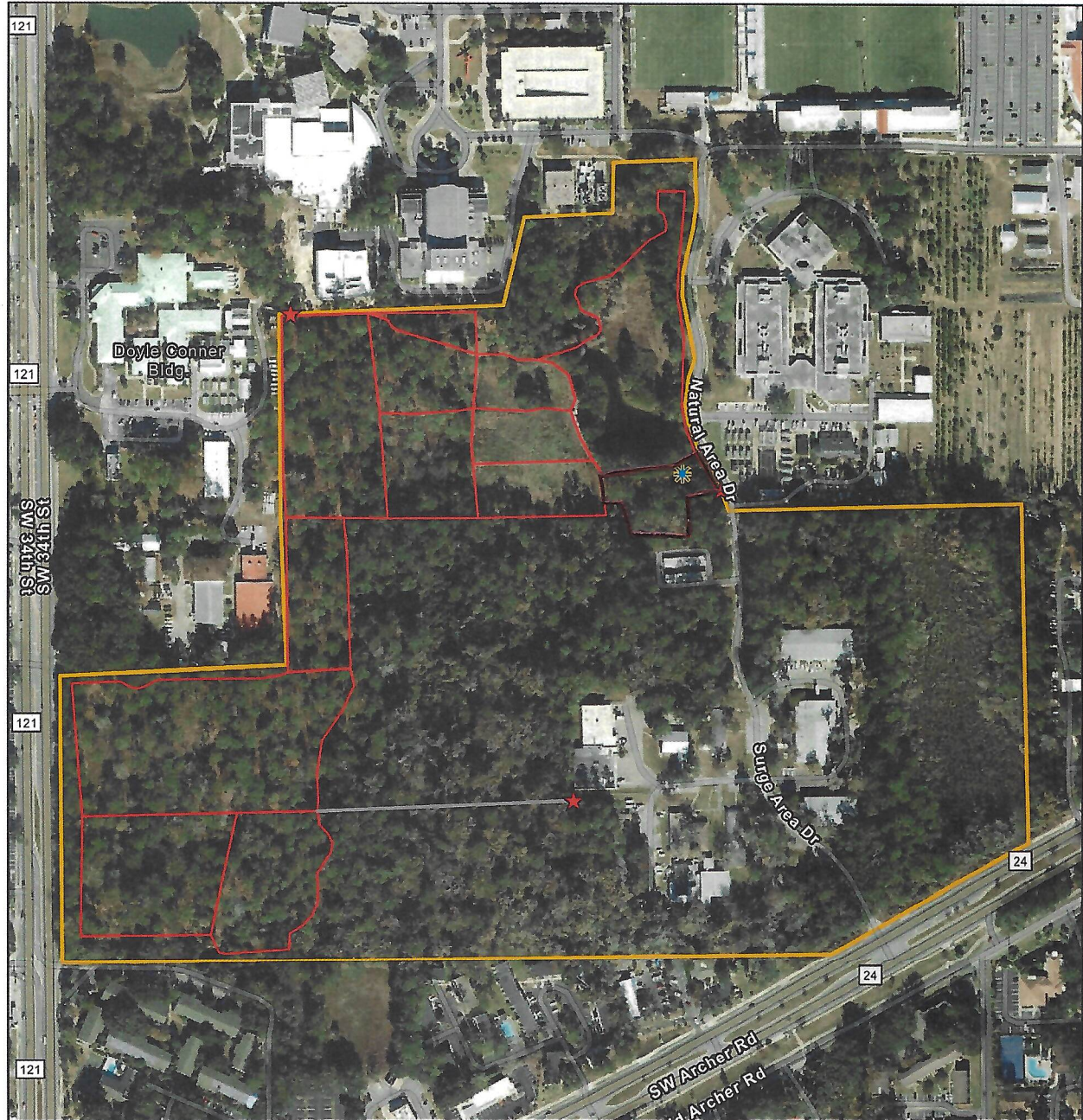


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NATURAL AREA TEACHING LABORATORY +/- 70 ACRES



1881 NATURAL AREA DR
GAINESVILLE, FL, 32608

0 0.03 0.06 0.12 Miles

Map prepared by R. Townsend & R. Barreto 02/2025

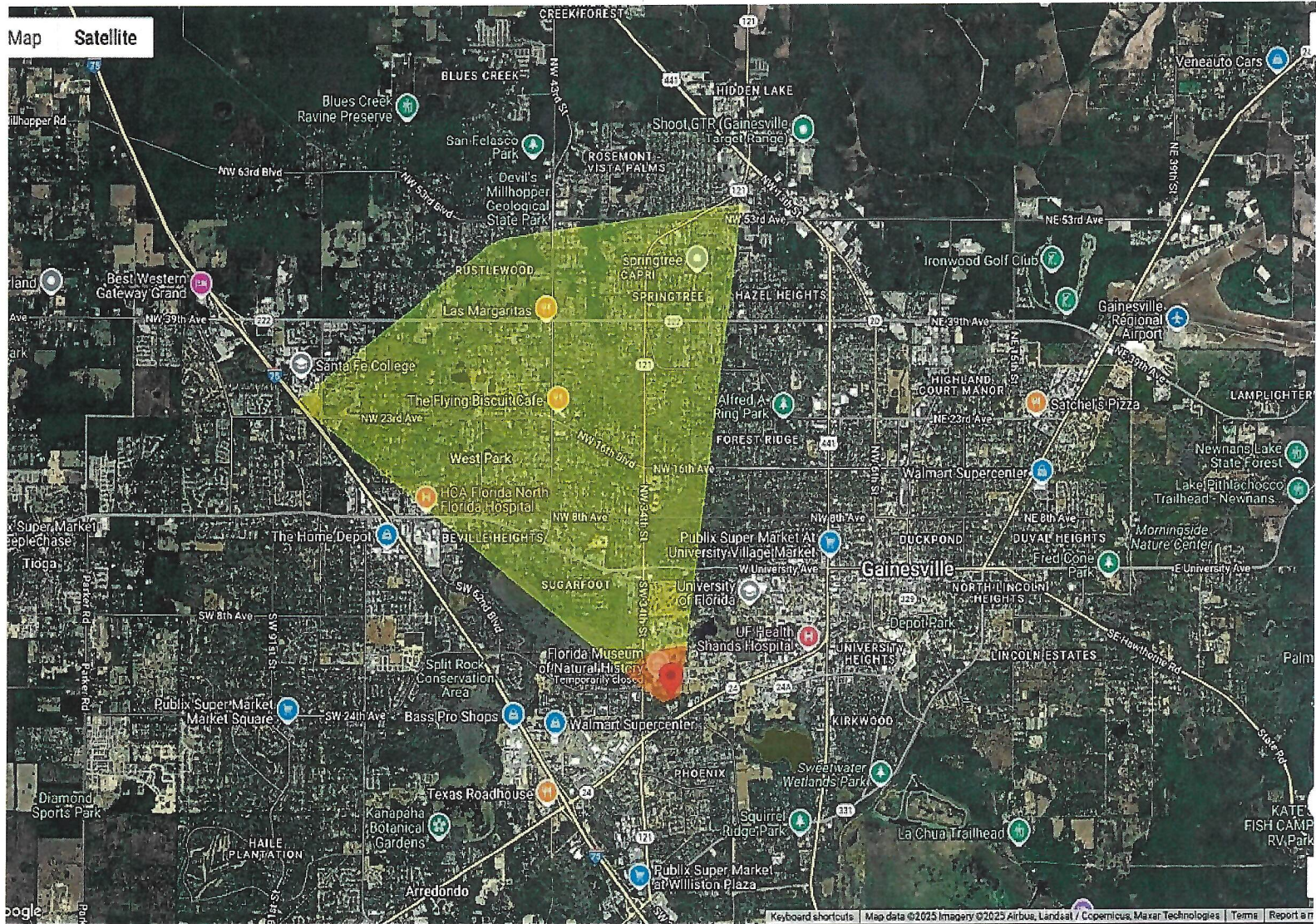


- ★ Gates
- NATL Boundary
- Burn Units
- ✱ Water Source
- Access Road



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Thursday: A slight chance of showers and thunderstorms before 2pm, then showers and possibly a thunderstorm between 2pm and 5pm, then showers and thunderstorms after 5pm. High near 94. Heat index values as high as 102. Calm wind becoming south 5 to 7 mph in the afternoon. Chance of precipitation is 80%. New rainfall amounts between a tenth and quarter of an inch, except higher amounts possible in thunderstorms.

Thursday Night: Showers and thunderstorms, mainly before 8pm. Low around 71. Southwest wind around 5 mph becoming calm in the evening. Chance of precipitation is 80%.

Friday: A chance of showers, then showers and thunderstorms after 11am. High near 91. Calm wind becoming southwest around 6 mph in the afternoon. Chance of precipitation is 80%.

Friday Night: Showers and thunderstorms before 11pm, then a chance of showers. Low around 72. Chance of precipitation is 80%.

Saturday: Showers and thunderstorms, mainly after 2pm. High near 90. Chance of precipitation is 90%.

Saturday Night: Showers and thunderstorms before 2am, then a chance of showers. Low around 72. Chance of precipitation is 80%.

Sunday: A chance of showers, then showers and thunderstorms after 8am. High near 89. Chance of precipitation is 90%.

Sunday Night: Showers and thunderstorms before 2am, then a chance of showers. Low around 72. Chance of precipitation is 80%.

Monday: Showers and thunderstorms. High near 89. Chance of precipitation is 90%.

Monday Night: Showers and thunderstorms. Low around 72. Chance of precipitation is 80%.

Tuesday: Showers and thunderstorms. High near 89. Chance of precipitation is 80%.



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Eastern Alachua-

Including the cities of Gainesville, Gainesville Airport,
and Newnans Lake

211 AM EDT Thu Jun 26 2025

	Today	Tonight	Fri
Cloud Cover	Pcldy	Pcldy	Pcldy
Chance Precip (%)	60	50	60
Weather Type	Tstms	Tstms	Tstms
Chance of <u>Thunder</u> (%)	60	50	60
Temp (24h trend)	94 (-1)	70 (-5)	92
<u>RH</u> % (24h trend)	40 (-7)	95 (+7)	53
Wind 20ft AM (mph)	SE 3 G11		SW 2 G7
Wind 20ft PM (mph)	SE 4 G13	S 2 G11	SW 4 G9
Precip Amount	0.10	0.02	0.07
Precip Duration	3	2	4
Precip Begin	8 AM	Continuing	12 PM
Precip End	Continuing	6 AM	Continuing
Mixing Hgt(ft- <u>agl</u>)	7000	300	7200
Transport <u>Wind</u> (mph)	E 7	S 5	SW 7
<u>Dispersion</u> Index	59	2	67
Max LVORI		8	

Remarks...None.

.FORECAST FOR DAYS 3 THROUGH 7...

.SATURDAY...Partly cloudy. Showers and thunderstorms likely. Lows in the lower 70s. Highs in the lower 90s. Minimum RH 64 percent. West winds around 5 mph.

.SUNDAY...Showers and thunderstorms. Lows in the lower 70s. Highs around 90. Minimum RH 70 percent. West winds around 5 mph.

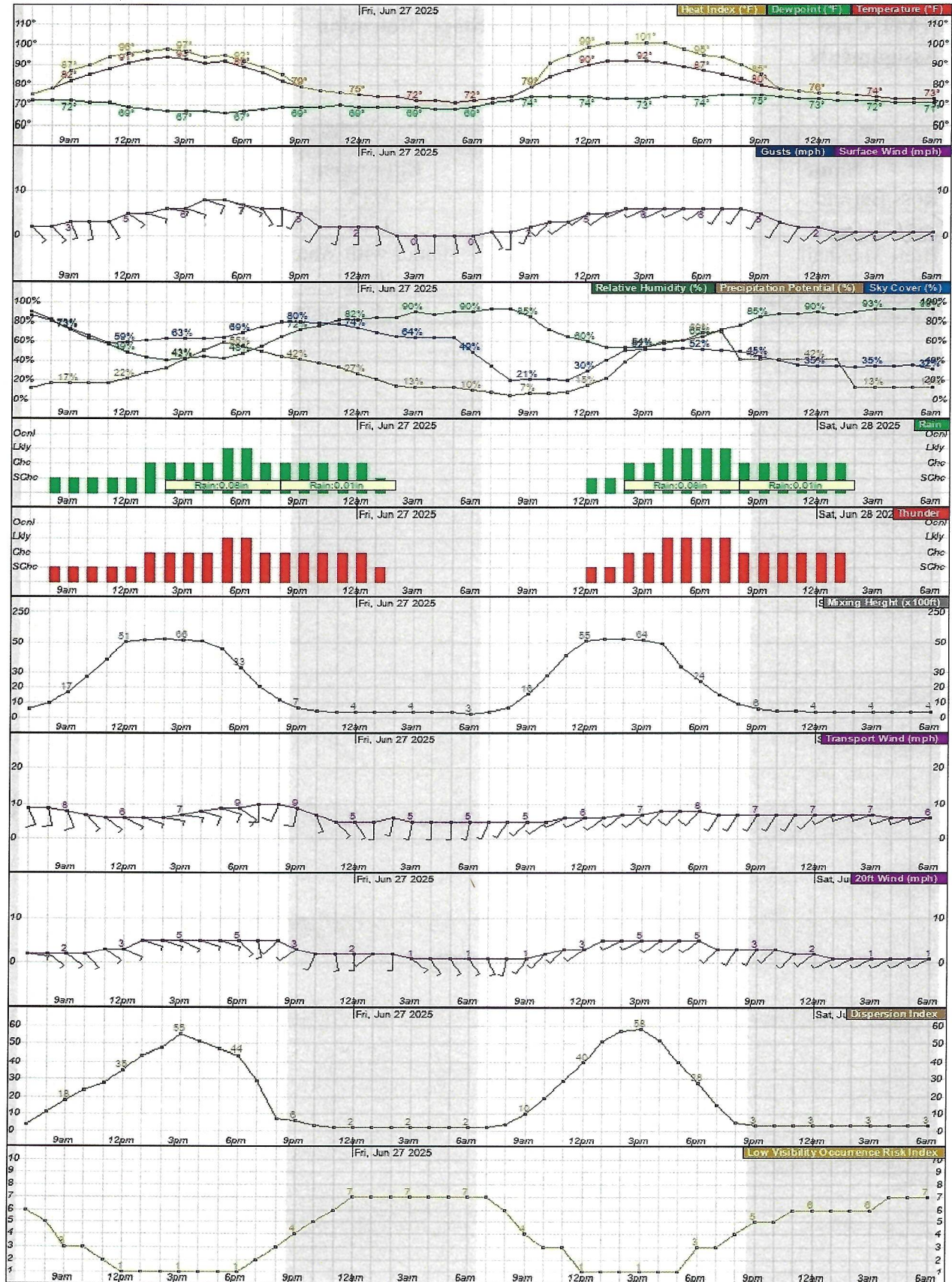
.MONDAY...Showers and thunderstorms. Lows in the lower 70s. Highs in the upper 80s. Minimum RH 75 percent. Southwest winds around 5 mph.

.TUESDAY THROUGH WEDNESDAY...Showers and thunderstorms. Lows in the lower 70s. Highs around 90. Minimum RH 70 percent. Southwest winds around 5 mph.



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NATL Crew Assignments	Unit Name: Pavillion Slope, Retention Pond, Seep Slope		Date Prepared: 6/26/2025 Time Prepared: 9AM
Name	Position	Equipment	Home Base
Ross Barreto	Burn Boss Trainee	UTV	NATL
Cody Wall	FFS Supervisor	UTV	FFS Waccasassa
Brett Marshall	Firing/Holding Crew	Gator with Water Tank	F4 Tech
Rachel Townsend	Line boss/ Burn Boss	Type 6 Engine	OSBS