



January 23, 2026

SUMMARY

Green Canyon Company, together with the **University of Florida, School of Forest, Fisheries and Geomatic Sciences**, conducted a test in a controlled burn of a portion of managed forest owned by the University of Florida, on the outskirts of Gainesville, Florida, where the suppressing qualities of the Fire Suppressant **FS-01** were put to the test. At the University's direction, various applications were carried out in the area to expose the product to different scenarios, including some that never occur in a natural wildfire situation.

Testing area: 5 acres

Temperature: 72°F

Humidity: 51%

Wind: variable

Vegetation:

- Pines 20 ft -30 ft
- Palmetto palms: 1ft – 5ft
- Grasses: 1ft – 5ft
- Bushes: 1ft – 5ft
- Oak trees: 1ft – 5ft

FS-01:

- Concentrated product: 5 gallons
- Ratio mix: 1/5
- Total mixed product: 30 Gallons
- Product used: 15 Gallons

Equipment:

- Deposit: 50 Gallons.
- Application spray system with pump.
- Tractor.



APPLICATIONS

APPLICATION 1:

A firebreak application line was established at the boundary of the plot to act as a firebreak and limit the spread of the fire to the adjacent property. The objective was to use **FS-01** as the limit of the burn, instead of using heavy machinery.





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APPLICATION 2:

Application on palmetto palm. This type of plant has high combustibility, and applications were performed on groups of palms to verify the suppression power of **FS-01** against this type of fire, which is very common in Florida.



FS-01 clearly prevents the combustion of palmetto palms wherever it was applied.

APPLICATION 3:

An area of grass with heights between 3 and 5 feet was selected, where **FS-01** was applied. The grass was very dry, making it a highly combustible material. It can be observed that when the fire reaches the treated area, it stopped abruptly, leaving the protected zone unburned.

Several hours after this application, an attempt was made to ignite the previously treated area, which proved impossible.

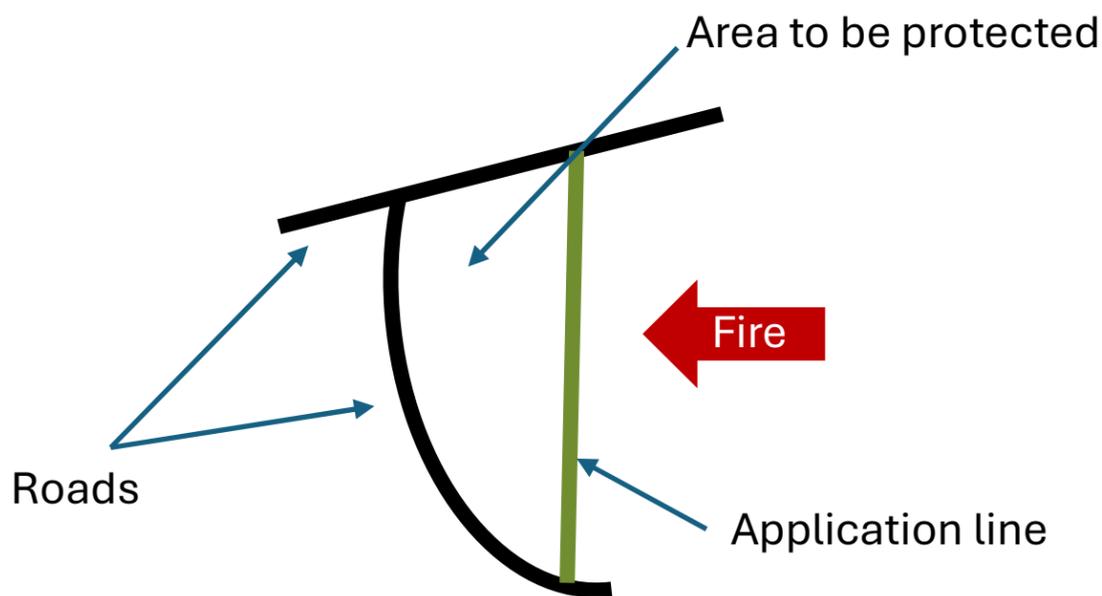




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APPLICATION 4:

A line of application 2-3 feet wide and approximately 100 feet long was created. This line enclosed an area next to intersecting paths. The objective was to protect the area between the paths and the **FS-01** application line.



APPLICATION 5:

A firebreak application line 2-3 feet wide and approximately 100 feet long was created. Fire was ignited on both sides of the application line to observe the behavior of **FS-01** in this type of scenario. It should be noted that this type of situation is very unlikely to occur in a real wildfire.



FS-01

FIRE TEST



BURN PRESCRIPTION - Austin Cary Forest-UF/IFAS-FFGS		
Compartment / Unit(s): Winter Annual Burn Burn Manager: Scott A. Sager Cell #: 352.317-1352		
		Certification #: 2006-3642 Customer ID #: 1336194
Landowner: UF/IFAS - Austin Cary Forest Address: 10625 NE Waldo Rd, Gainesville FL Phone: 352.317.7675		
State District (Phone): Wacassassa (352.955.2010) County: Alachua Acres: 5 Section / Township / Range: 4/9S/21E Last Burned: January 2025		
Boundaries - description and distance (attach aerial photo indicating unit boundaries) N/NE - disced firebreak, 0.14 miles E - disced firebreak, 0.07 miles S/SW/W - trailroad, 0.13 miles		
Overstory: mixed mature pine, ~100 TPA General Purpose of Burn: silviculture-ecological Specific Burn Objectives: <0% crown consumption, <10% crown scotch, >80% understory consumption		Understory: flatwoods complex
Smoke Sensitive Areas SR24/Waldo Rd - NW 1.03 miles Special Concerns structures immediately north		
PLANNED WEATHER In Stand Winds (1-3mph) Transport Wind (9-20mph) Mixing Height (1,700-6,500') Daylight Dispersion (>20) Night Dispersion >=1 Temperature <100F Rel Humidity (30-55%) Fine Fuel Moisture (10-20%)	Preferred N/E/S/W, 1-3mph N/E/S/W, 9-20mph >2,500' >25 >=1 <100F >35% 10-20%	Forecasted N/NE, 1-2mph W, 3mph >4800' >19 >3 <77F >49% 10-15%
PLANNED IGNITION METHODOLOGY Season/Timing: dormant season Technique(s): backing, flank/strip as needed Desired Flame Length/Intensity: <20', moderate intensity Minimum Equipment and Staff: 2 staff, brushtruck on standby		
PRE-BURN CHECKLIST (initial each completed) <input type="checkbox"/> all prescription requisites met <input type="checkbox"/> authorization obtained <input type="checkbox"/> necessary local contacts made (local fire department, adjacent landowners, etc.) <input type="checkbox"/> burn warning signage posted at gate(s) <input type="checkbox"/> all equipment and staff on site and functional <input type="checkbox"/> all staff properly equipped (minimum PPE at discretion of burn manager)		
CREW BRIEFING (initial each completed) <input type="checkbox"/> burn objectives <input type="checkbox"/> burn boundaries <input type="checkbox"/> hazards discussed (containment issues, terrain features, etc.) <input type="checkbox"/> assignments made <input type="checkbox"/> ignition methodology discussed, contingency plan discussed <input type="checkbox"/> equipment location noted (fuel, water, tools, vehicles, vehicle keys, etc.) <input type="checkbox"/> authority confirmed and communications discussed <input type="checkbox"/> emergency procedures discussed (safe zones, contact information distributed, etc.) <input type="checkbox"/> questions requested <input type="checkbox"/> staff given opportunity to decline participation		
Burn Manager Signature: Permit Number / Date: 2026-007483/23 Jan 2026 Permit Conditions (if any): none		



FS-01 FIRE TEST

