Tools for Prescribed Burning















Florida State Parks 2007

160 Parks

695,996 acres

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Florida State Parks



104 parks have fire-dependent acres

583, 447 upland acres

~263,000 acres are Fire-Dependent

FPS needs to burn 80,000 ac/yr

Ten year average 45,000 ac/yr



FPS Million Acre March 1972 - 2007 Congratulations FPS !!

You've come a long way . . .

February 21, 2007 **1,000,866 acres**

1,000,000 998,000 996,000 994,000 992,000 990,000 988,000 986,000 984,000 982,000 980,00

Parks Burning Week of Feb 15-21

Bald Point Gold Head Hontoon Jonathan Dickinson **Kissimmee Prairie** Lake Kissimmee Lake Louisa Myakka River **Oscar Scherer Paynes Prairie** Sebastian Inlet St. Andrews St. Marks Suwannee River **Three Rivers** We kiwa Springs

🗖 1972 - 2006 📮 Through Jan 7 🧧 Through Jan 14 📮 Through Jan 21 📮 Through Jan 31 📮 Through Feb 7 📮 Through Feb 14 📕 Through Feb 21

When you are in deep trouble, look straight ahead, keep your mouth shut, and say nothing.



Technical Advisors

- Sam McGee/Ray Mojica photo points
- Ed Harris XM weather
- Scott Goodrick Goggle Earth smoke plotting
- Brendan Mulholland IT
- Matt Corby Interagency cooperation
- Steve Miller web-based hydrological data
- Task Master Doreen DiCarlo

- Neil Clineman & Bryan
 Kreiter Polaris outfitting
- Rusty Boys PyroShot
- Dragon Toys Jeff
 Schardt
- Red Tape Burning Boyd Blihovde
- Radio Technology Laura Butterfield
- Stand-in Speaker Deb Hanley

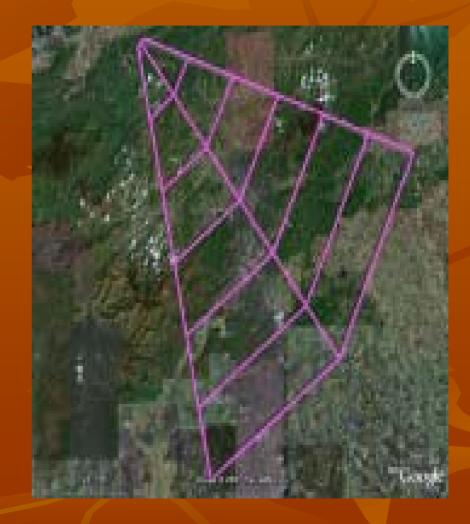
Brevard Co., DEP, Fla. Natl. Guard, SJRWMD, TNC, USFWS, DOF, East Ridge HS, Florida Atlantic Univ., Private

The Perfect Tool is Out There



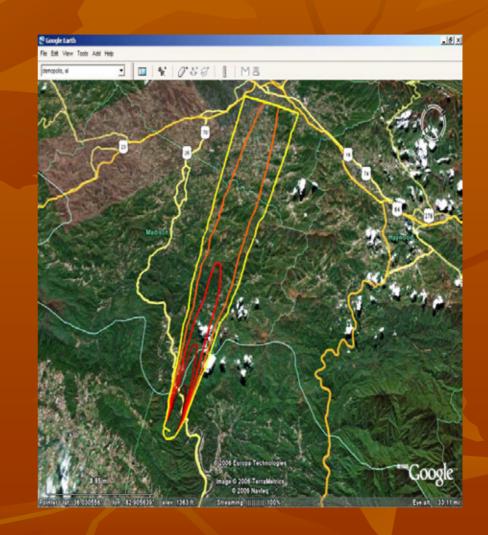
Google Earth and Smoke Screening

- Simple grid-based screening tool
- Replaces old plastic protractor
 Useful for planning



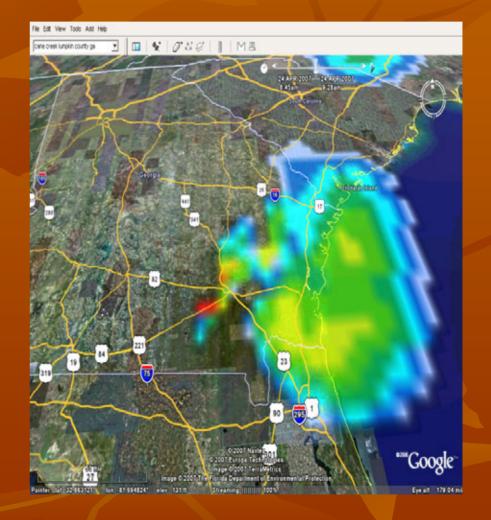
Google Earth and Vsmoke

- New implementation of standard VSmoke model
- Uses Google Earth as the GIS interface for displaying results
 Dramatically reduced
 - learning curve compared to VSmoke-GIS



Google Earth and BlueSky

 Ingest smoke concentration forecasts from BlueSky and display in Google Earth
 Provides estimates of hourly surface particulate matter concentrations.





Navigate to County - SELECT - 🔻

Navigate to Basin - SELECT -

Map Legend

🗉 Rain Water Level Discharge

🗧 Done

Welcome! The hydrologic data collection program of the St. Johns River Water Management District collects, processes, manages, and disseminates hydrologic and meteorological data that are used for consumptive use permitting, water shortage management, establishment of minimum flows and levels, water supply planning and management, environmental protection and restoration projects, and operation of District flood control facilities. It is staffed and managed by the Division of Hydrologic Data Services (HDS), HDS operates and maintains over 1,000 monitoring stations throughout the District and processes data from approximately 200 additional sites collected by county

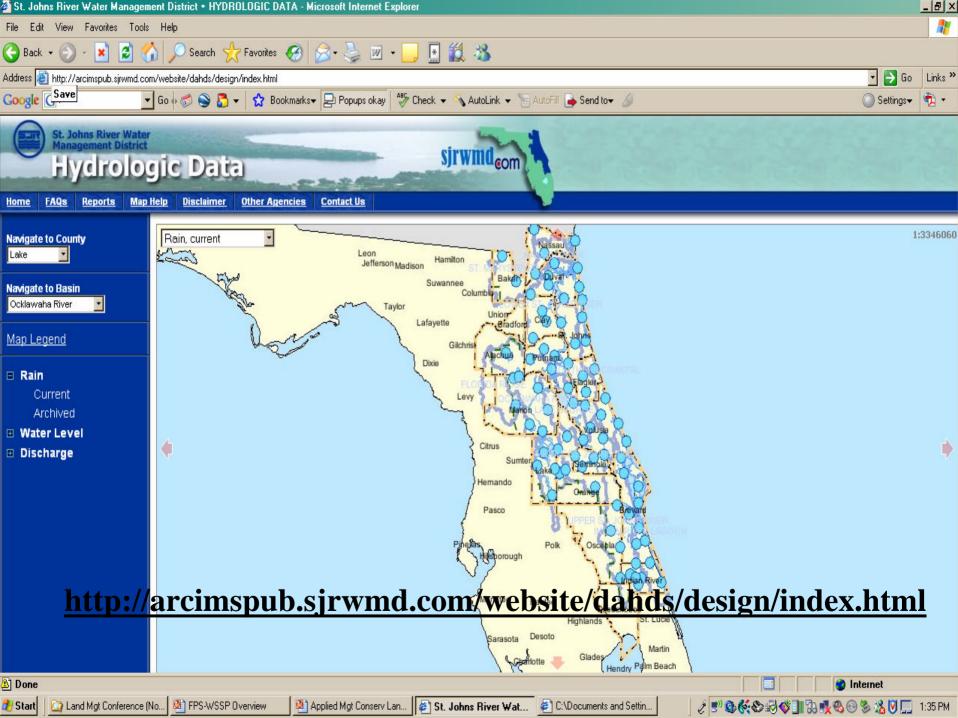


and municipal agencies through mutual agreement or by the U.S. Geological Survey under contract to the District. Over sixteen million measurements are collected, verified, processed, and stored each year. These data are disseminated to District staff and the public upon request. HDS also compiles the District's Hydrologic Conditions Report, which is posted each month on the District's Web site.

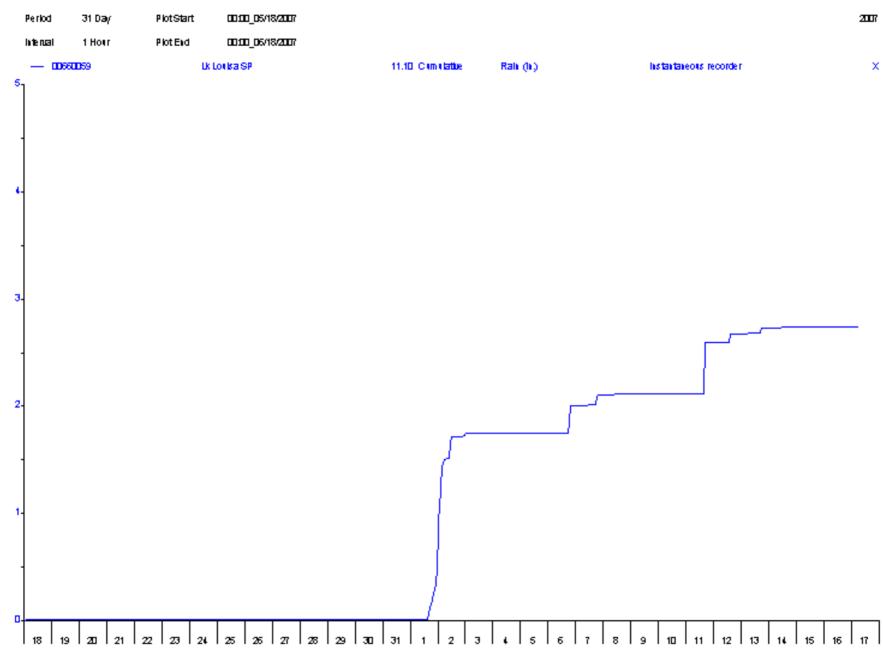
The goal of the hydrologic data collection program is "to support the District's hydrologic and meteorological data needs by providing quality assured data as requested."

Internet

1:28



St Johns River Water Management District





WindMate ~ \$220



Basic Field Weather Instrumentation



Kestrel 4500 ~ \$400

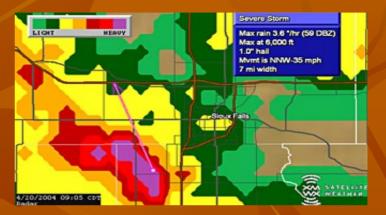
XM Weather

http://www.xmradio.com/weather/overview.xmc.



Antenna ~ \$250, service \$30/month/antenna





DEP BIPM using with Garmin GPSMap376C ~ \$1,000



Near Real-time Weather Data



Enhanced GPS Technology

Topo layer, aerial photo layer, way points, collected data points, shape files







www.delorme.com Earthmate ~ \$350

Ricoh 500SE GPS-ready Digital Camera

Capture Location Data with Your Images

1 32 00 v

WIFI 8Bluetooth

Find Resellers Download Brochure View the Quicktour

RICOH

www.ricohsolutions.com/geo

117,45,23.12 W 01-04-07 14.102,11.05 N Smith Construction

Cost: ~ \$1100



Sufficient Radio System to Maximize Communications Effectiveness



Mobile \$800 Portable \$750

www.Relm.com

Forestry Professionals

ATTN: PRESCRIPTION BURNERS http://PyroShot.com

Introductory Pricing

For complete information on PyroShot, Dragon Eggs combustable spheres, 150 shot magazines and ball bags please visit our website. For pricing and ordering please call (770) 454.1130

PyroShot[™]

HAND LAUNCHER FOR GROUND IGNITION Covers a Lot of Ground

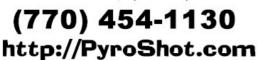
Not Your Grandfather's Drip Torch!!!

U.S. Patent Pending

Currently in use by: U.S. Forest Service USFS Missoula Technology and Development Center US Fish and Wildlife Service National Interagency Prescribed Fire School Horida Division of Forestry Horida Fish and Wildlife Conservation Comm. as well as many others



Available Only From: Field Support Services 2001 FLIGHTWAY DRIVE, CHAMBLEE, GA 30341



Hand - Held Aerial Ignition Device Launcher - \$1895





~ \$8600 free trial



Free







Dragon eggs ~ \$217/1,000



www.SEI-ind.com



POK Nozzles: \$150 - \$400 + POK Sticks: Mini - \$5.50+ ea Large - \$16+ ea



POK Foam Technology

OK









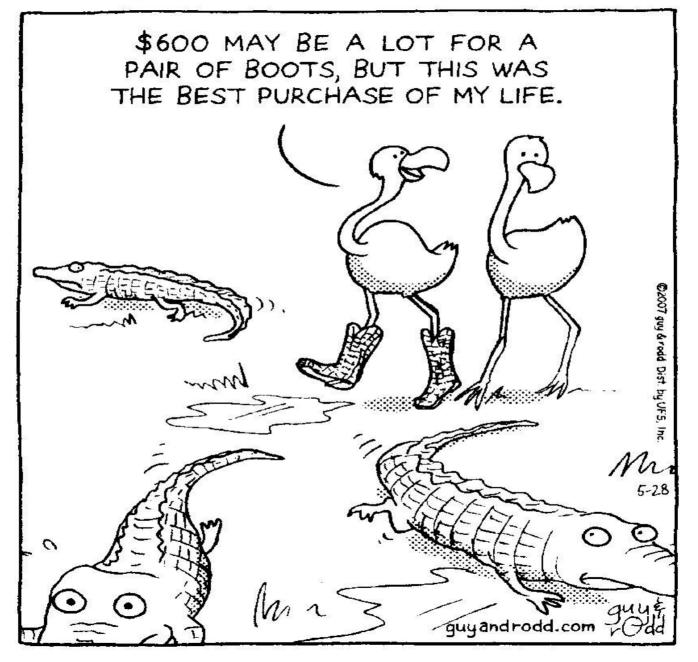
Water Distribution Manifold – simplifies plumbing by bringing water to central point and dispersing it to outlets



Reproducible photo-points for documenting habitat restoration Baymond Mojes Jr. Land Manager Breverd County EEL Program, 91 East Drive, Melbourne, Florida 33064 Breverd County (Ebridg) Environmentary Endangered Lando (EEL) Program has developed and impermented a technique to enco nd fit incated or as or from a tripost. Utilizing off the shelf a Abandoned Restaurant September 30, 2003 aty of half Application Methods September 09, 2004 vo davs after passage of Hurricane Fi (RTOOLBOX October 25, 2004 Com Reproducible Panorami Photo-point Guidelines February 08, 2005 FEMA dune restoration project t H Christ 547 April 20, 2005 FEMA dune restoration project complet ed, 3,000 sea oats planted -CIRRAL MI 415 *Sectoral mojica@brevardparks.com inter State 1988 a 1884 100 lame Court July 13, 2005 -mcar 44.14 102 and image size This will be E-chain For December 09, 2005 Company of the local division of the local d Phone I amad Chill February 27, 2006 Locate your images April 07, 2006 July 06, 2006 Maritime Hammock Sanctuary Trail August 08, 2006 October 03, 2006 and the Barrier Island Sanctuary Trail November 13, 2006 December 01, 2006 press and Export Compress and export the finish VR movie. ned and the 18 pho-

Example

Brevity











Questions?