

Esri Forestry GIS Conference

Hosted by the Esri Forestry Group | May 1–3, 2012

Automating Project Map Creation

Pete Bromley

Forest Care, San Bernardino National Forest Association



A topographic map showing green and yellow contour lines, with a small '5074' label visible.

Forest Care

- **Reimbursement program for private landowners to thin small diameter trees and brush**
- **Foresters meet with landowners onsite and work with them to design a thinning plan**
- **Participants must file paperwork with State**

State Requirement



A topographic map showing green and yellow terrain contours, with a small elevation marker '5074' visible.

The Problem

- **In the Past: One person dedicated to making paperwork**
 - 20 hours/week
- **1 set of maps by hand = 5 minutes**
100 sets of maps by hand = Eternity

Data Storage

- Parcel data – San Bernardino & Riverside Counties
- Forest Care collects contact information

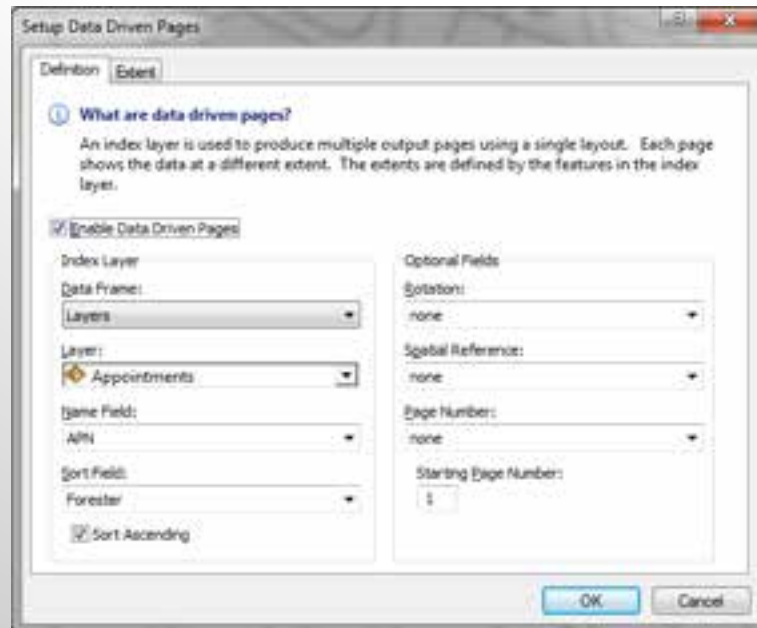
The image shows a screenshot of a web-based data entry form. The form is organized into several sections with labels on the left side: 'Parcel ID', 'Parcel Name', 'Parcel Address', 'Parcel City, State, Zip', 'Parcel Owner', 'Parcel Phone', 'Parcel Email', 'Parcel Website', 'Parcel Notes', and 'Parcel Status'. Each section contains one or more input fields, some of which are highlighted in green. The 'Parcel ID' section includes fields for 'Parcel ID', 'Parcel ID (Secondary)', 'Parcel ID (Tertiary)', and 'Parcel ID (Quaternary)'. The 'Parcel Address' section includes fields for 'Parcel Address', 'Parcel Address (Secondary)', 'Parcel Address (Tertiary)', and 'Parcel Address (Quaternary)'. The 'Parcel City, State, Zip' section includes fields for 'Parcel City, State, Zip', 'Parcel City, State, Zip (Secondary)', 'Parcel City, State, Zip (Tertiary)', and 'Parcel City, State, Zip (Quaternary)'. The 'Parcel Owner' section includes fields for 'Parcel Owner', 'Parcel Owner (Secondary)', 'Parcel Owner (Tertiary)', and 'Parcel Owner (Quaternary)'. The 'Parcel Phone' section includes fields for 'Parcel Phone', 'Parcel Phone (Secondary)', 'Parcel Phone (Tertiary)', and 'Parcel Phone (Quaternary)'. The 'Parcel Email' section includes fields for 'Parcel Email', 'Parcel Email (Secondary)', 'Parcel Email (Tertiary)', and 'Parcel Email (Quaternary)'. The 'Parcel Website' section includes fields for 'Parcel Website', 'Parcel Website (Secondary)', 'Parcel Website (Tertiary)', and 'Parcel Website (Quaternary)'. The 'Parcel Notes' section includes a text area for 'Parcel Notes'. The 'Parcel Status' section includes a dropdown menu for 'Parcel Status'. The form also features a 'Save' button, a 'Cancel' button, and a 'Clear' button. A red warning message is visible on the right side of the form, stating: 'Please do not submit this form until you have entered the address!'. The form is displayed in a browser window with a standard toolbar and address bar.

Mailing Labels - Microsoft Excel

	A	B	C	D	E	F	G	H	I	J	K
	APN	Name	Address1	Address2	AppointmentDate	Forester	Site	Site2	Acres	Phone	Comments
1	123456789	Joe Hamburger	1234 Sierra Ln.	Los Angeles, CA 78955	5/1/12	Ranger Rick	123 Sesame St.	Running Springs, CA 92384	0.123	907-555-1234	Delicious
2	234567891	Frank Holiday	6598 San Jacinto Dr.	San Francisco, CA 98452	5/2/12	Hollywood Gas	234 Frankfurter Rd.	Crestline, CA 92325	0.234	907-555-2345	
3	345678912	Sarahmy Combs	78932 San Geronimo Ln.	Glendale, CA 54321	5/3/12	Savage Pete	345 Bushland Dr.	Lake Arrowhead, CA 92353	0.345	907-555-3456	
4	456789123	Patty Bun	89106 Pikes Pl.	San Diego, CA 98348	5/4/12	Ho-Man	456 Wheat Cr.	Airpurbear, CA 92382	0.456	907-555-4567	
5	567891234	John Doe	8912 Grand Teton Way	Jackson, WY 54130	5/5/12	She-Pah	567 Hoffa Rd.	Big Bear Lake, CA 92315	0.567	907-555-5678	
6	678912345	Jane Doe	98105 Garner Cr.	Redlands, CA 54569	5/6/12	Batman	678 Converse St.	Big Bear City, CA 92334	0.678	907-555-6789	
7	712345678	Nancy Kamran	218 Whitney Rd.	Lone Pine, CA 94458	5/7/12	Mark Twain	789 Ice Kink Dr.	Idyllville, CA 92348	0.789	907-555-7891	
8	891234567	Martha Stewart	79861 St. Helens Pl.	Somewhere, WA 13257	5/8/12	Neal Stephenson	890 Easy Living Way	Forest Falls, CA 95641	0.891	907-555-8912	
9	912345678	Gregory Peck	217 Cascade Dr.	Lander, WY 54120	5/9/12	Kane Hodder	901 Bowden Ln.	Cape Fear, CA 23480	0.912	907-555-9123	
10											
11											
12											



Data Driven Pages



The Process

Name:

Address:

APN:

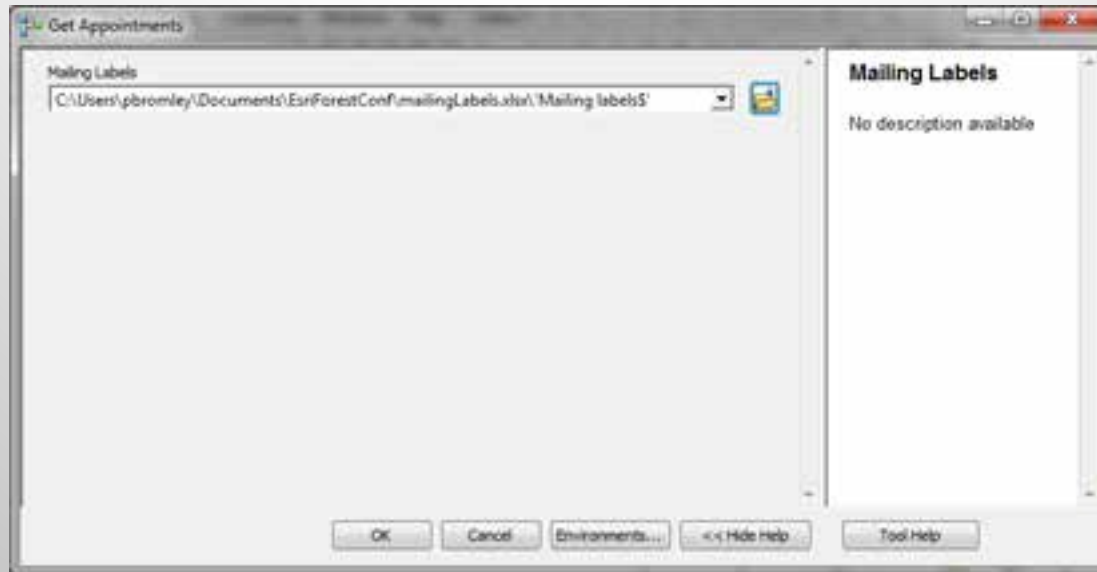
S24T02NR01E SBBM

Acres:



The Process

1. Tool joins contact data with parcel data



The Process

2. Field names populated, parcels shown in red

The screenshot displays a GIS application interface. At the top, a 'Data Driven Pages' window shows the page number '029501420' and a 'Page Text' dropdown. Below this, a 'Next Page' button is visible. The main map area shows a parcel map with a red outline around a specific parcel. To the right of the map, the following information is displayed:

Name: Esri2
Address: 2446 Deep Creek Dr
Running Springs, CA 92382
APN: 029510362
S32T02NR02W 988M

Acres: 0.2586

A 'Properties' window is open in the foreground, showing the 'Text' tab. The 'Text' field contains the following text:

```
APN: <field type="page_properties_mailing_labels APN">
Acres: <field type="page_properties_mailing_labels Acres">
```

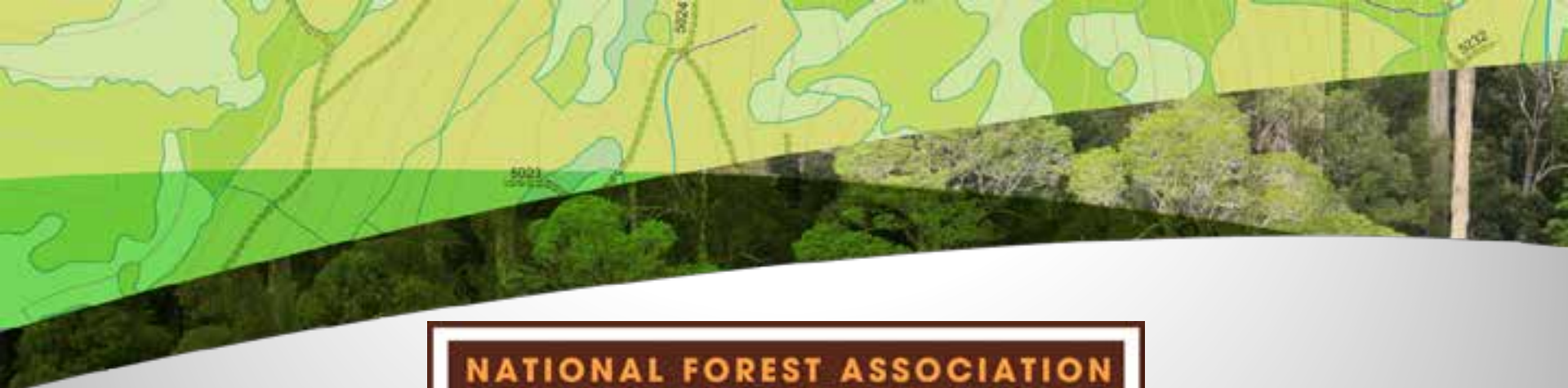
The 'Font' is set to Arial 18.00. Other settings include Angle: 0.00, Character Spacing: 0.00, and Leading: 0.00. Buttons for 'About Formatting Text', 'Change Symbol...', 'OK', 'Cancel', and 'Apply' are visible at the bottom of the window.

At the bottom of the map, a scale bar indicates 1:1,200. The application date is 02/2012, and the forester is Jason Meyer.

A topographic map showing green and yellow terrain with contour lines and a small elevation marker '5074'.

The Result

- **Maps can be sorted by any field**
- **Scale can be changed**
- **Batch printing/exporting**





esri