

On-site ArcView 3.2 Procedure for commute shed study

Steve Raney, steve_raney@cities21.org, 650 329 9200

Clean up employee address spreadsheet data in Excel:

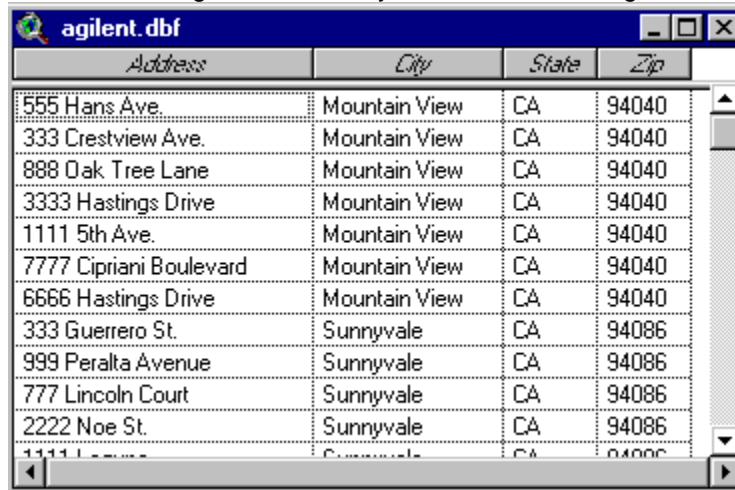
- Change spreadsheet column headings to “address”, “city”, “zip”. Add a column called “state”.
- Remove all apartment numbers and letters.
- 9 digit zip is OK
- For the state column, fill in “CA” for each entry
- Extra credit: remove apartment numbers
- Save agilent.XLS as agilent.DBF as DBF4

Laptop geographical procedure

- Boot up laptop with Street map 2000 CD
- Start > Programs > ESRI > ArcView GIS 3.2 > ArcView GIS 3.2
- Maximize the application to fill up the screen
- File > Open Project> c:\data\paloAlto.apr

Import DBF4 into ArcView & geocode:

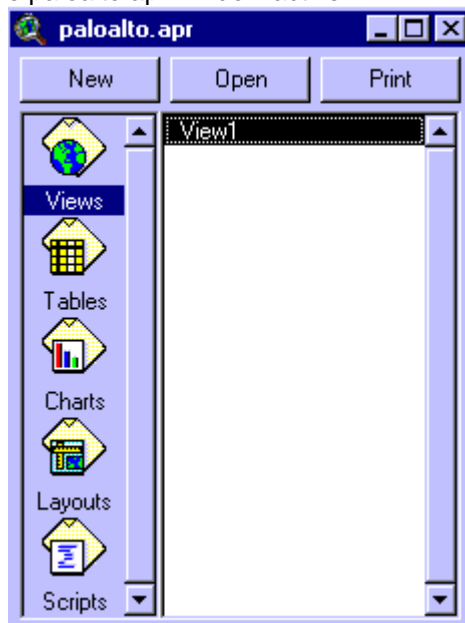
- Project > Add Table > agilent.dbf. Verify that column headings are correct:



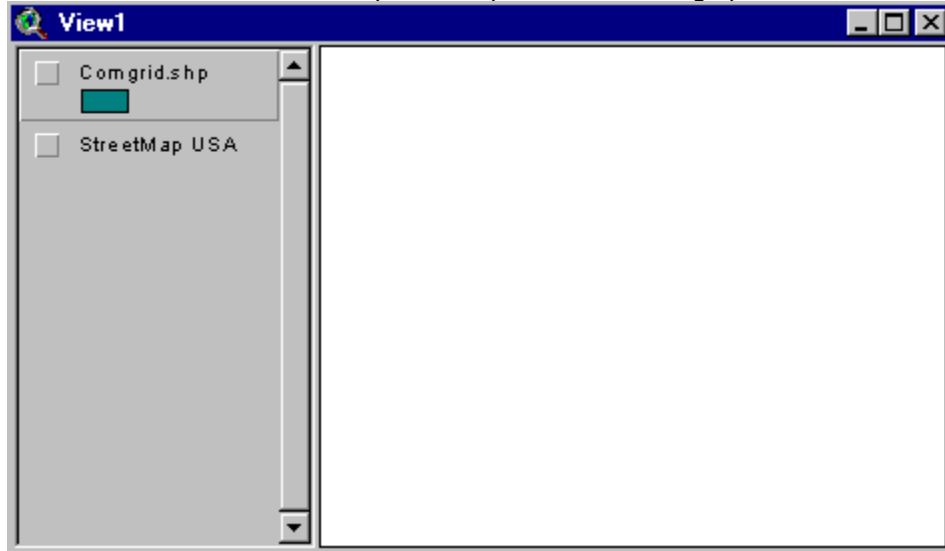
Address	City	State	Zip
555 Hans Ave	Mountain View	CA	94040
333 Crestview Ave.	Mountain View	CA	94040
888 Oak Tree Lane	Mountain View	CA	94040
3333 Hastings Drive	Mountain View	CA	94040
1111 5th Ave.	Mountain View	CA	94040
7777 Cipriani Boulevard	Mountain View	CA	94040
6666 Hastings Drive	Mountain View	CA	94040
333 Guerrero St.	Sunnyvale	CA	94086
999 Peralta Avenue	Sunnyvale	CA	94086
777 Lincoln Court	Sunnyvale	CA	94086
2222 Noe St.	Sunnyvale	CA	94086
1111 Laguna	Sunnyvale	CA	94086

<these are not real addresses>

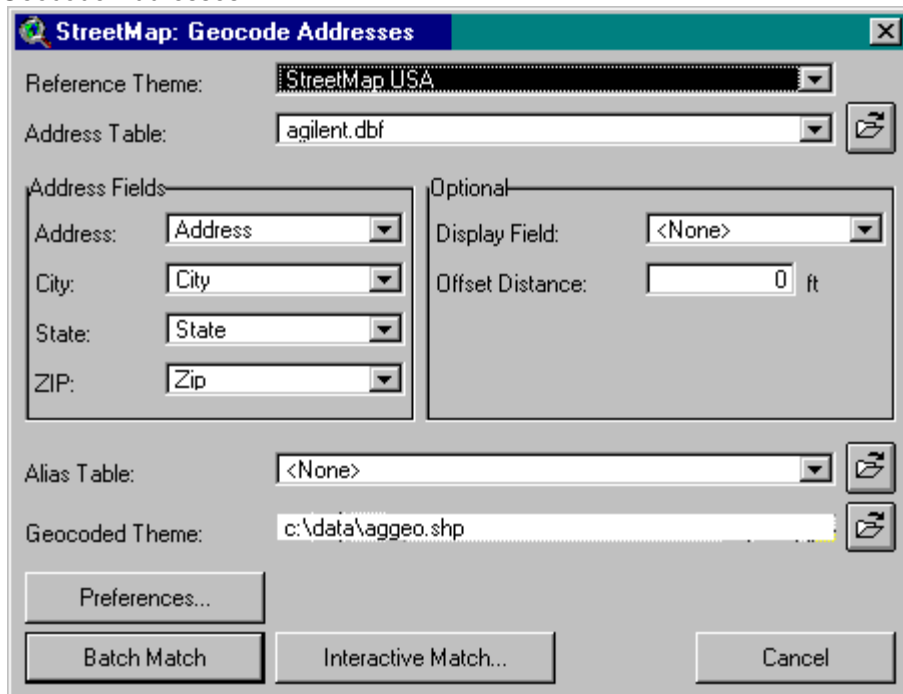
- Geocode:
 1. Make the paloalto.apr window active.



- Select the Views Icon
- Click on “View1” within the paloalto.apr window to bring up the View1 window:

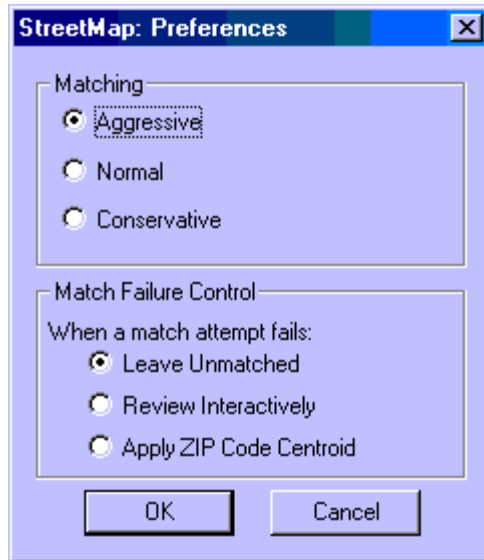


2. View > Geocode Addresses:

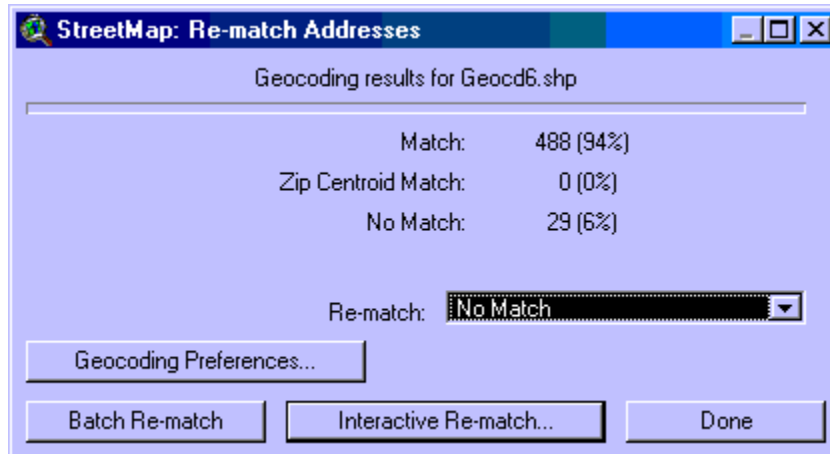


- **For geocoded theme, select “c:\data\laggeo.shp”**

3. Select the Preferences button and select Aggressive Matching:



4. Select batch match (this takes a while)
5. A results screen is shown:



6. Please record these results & report to Steve Raney. If you match less than 80%, please call Steve immediately.
7. Select Done from this screen.

Create the summary table:

Now the addresses have been geocoded:

- 1) Make the View1 window active
- 2) Select comgrid.shp
- 3) Theme > Table

Shape	Area	Perimeter	Comgrid_ge	Grid_
Polygon	0.000	0.013	2	
Polygon	0.000	0.013	3	
Polygon	0.000	0.013	4	
Polygon	0.000	0.013	5	
Polygon	0.000	0.013	6	
Polygon	0.000	0.013	7	
Polygon	0.000	0.013	8	
Polygon	0.000	0.013	9	
Polygon	0.000	0.013	10	
Polygon	0.000	0.013	11	
Polygon	0.000	0.013	12	
Polygon	0.000	0.013	13	

- Highlight "Shape" at the top of the first column, it will turn gray.
- 4) Make the View1 window active
 - 5) Select aggeo.shp
 - 6) Select Theme > Table:

Shape	Address	City	State
Point	555 Hans Ave.	Mountain View	CA
Point	333 Crestview Ave.	Mountain View	CA
Point	888 Oak Tree Lane	Mountain View	CA
Point	3333 Hastings Drive	Mountain View	CA
Point	1111 5th Ave.	Mountain View	CA
Point	7777 Cipriani Boulevard	Mountain View	CA
Point	6666 Hastings Drive	Mountain View	CA
Point	333 Guerrero St.	Sunnyvale	CA
Point	999 Peralta Avenue	Sunnyvale	CA

<These are not real addresses>

- Highlight "Shape" at the top of the first column, it will turn gray.
- 7) Table > Join (this takes a bit of time)
 - 8) Still within the aggeo.shp window, scroll to the right and highlight the "Grid_numbe" field:

Area	Perimeter	Comgrid_no	Grid_numbe
0.000	0.013	412093	412093
0.000	0.013	412847	412847
0.000	0.013	417908	417908
0.000	0.013	412826	412826
0.000	0.013	410672	410672
0.000	0.013	403494	403494
0.000	0.013	401297	401297
0.000	0.013	402016	402016

- 9) Field > Summarize
- Save as c:=\agSum.dbf. This is the crucial summary table aggregated to the grid:

Grid_numbe	Count
0	49
12023	1
62665	1
113455	1
124293	1
261390	1

File > Exit

- Answer "no" about saving changes.

Cleanup:

- With Windows Explorer, delete c:\data\ag*.*, leaving c:\agSum.dbf.