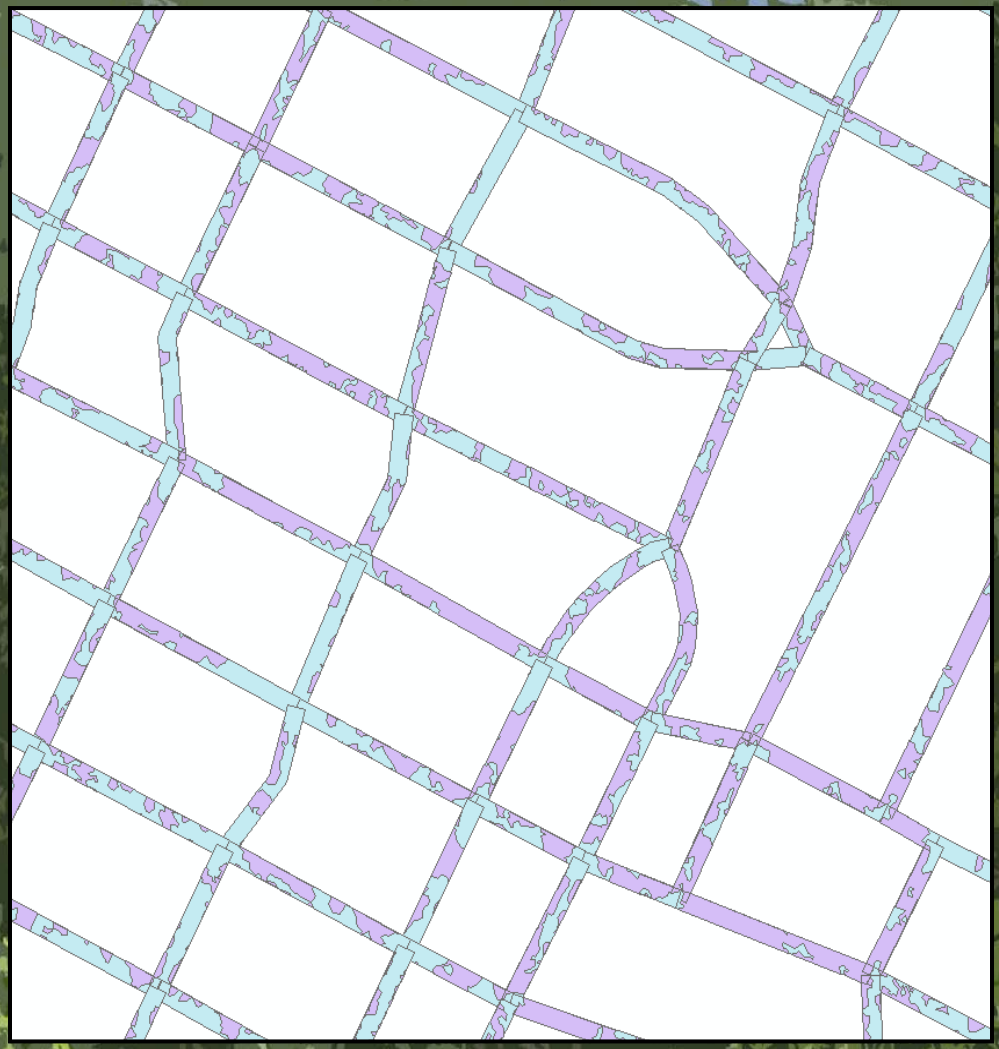
Urban Tree Shade Analysis: Project Report

Brooks Andrews – Project Manager and Web Analyst
Chaz Armijo – Assistant Project Manager and GIS Analyst
Lori Beabout – GIS and Web Analyst

Progress Report Outline

1. Brief project description
2. Work completed
3. Current work
4. Future work
5. Final deliverables
6. Conclusion



Project Description

Project goal: To produce shade indices for the City of Austin's streets and sidewalks on a block by block scale

Data Layer	Source
Streets	City of Austin
Sidewalks	City of Austin
Tree Canopy	City of Austin
Watersheds	City of Austin
Planning Neighborhoods	City of Austin

Work Completed

1. Buffered streets and sidewalks by 20ft using flat buffers opposed to round
2. Eliminated extra canopy cover data
3. Split up the canopy cover data by street segment

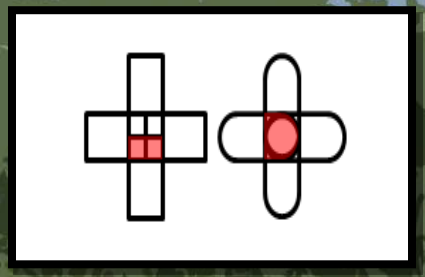


Figure 1-displays the difference between rounded and flat buffers

Current Work

1. Calculating a canopy cover percent for each street and sidewalk segment

Future Work

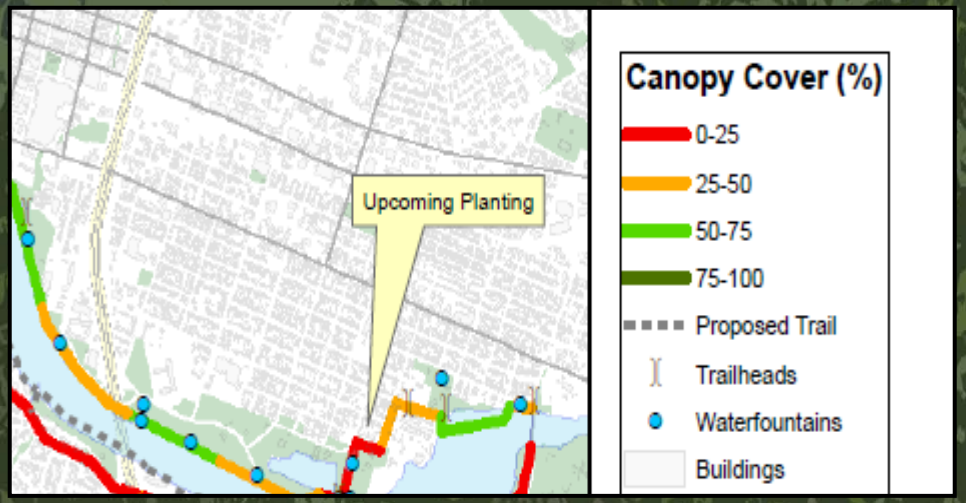
1. Determine average street and sidewalk shade for entire neighborhoods and watersheds
2. Use data to create visual displays
3. Construct website
4. Draft final report

Timeline

Activity	Initiation Date	Completion Date
Form teams	August 29	August 29
Data collection	August 31	September 21
Data pre-processing	September 12	October 5
Clipping layers into manageable forms	September 28	October 12
Data interpretation	October 12	October 17
Analysis of tree shade indices	October 17	November 14
Create website	November 14	December 5
Prepare final deliverables	December 5	December 12

Expected Findings and Implications

Expected Findings: The SSOCT is expecting to create tree shade indices on a block by block scale. The average tree shade will also be displayed by neighborhoods and watersheds.



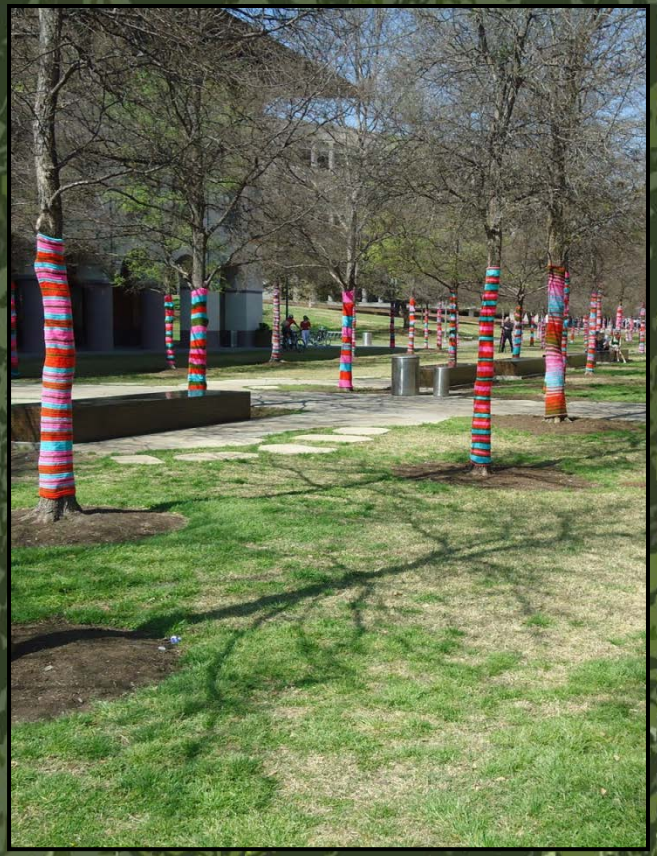
Implications: The newly created data will be used to identify possible correlations with road maintenance intervals, available moisture levels in soil, and crime rates. The Data will also be used to promote tree growth and Maintenance.

Final Deliverables

- Detailed final report (2 copies)
- Professional poster for display in the Geography Department
- Website (strictly for project display)
- CD (2 copies) containing
    - All data
    - Metadata
    - Proposal, Progress, and Final reports
    - Poster
    - Power Point presentation
    - Instructions on how to use CD (readme file)

Conclusion

Despite a few setbacks, our project is going as planned. By December 12th 2011, SSOCT will have completed and will be ready to submit its tree shade analysis for the City of Austin. Shade indices will be displayed by watersheds and by neighborhoods, including a more detailed data view with shade indices at a block by block scale.



Questions?

Thank you all for paying attention. Feel free to ask any questions you might have.