Restoring Land and Managing Karst to Protect Water Quality and Quantity at Barton Springs, Austin, Texas.







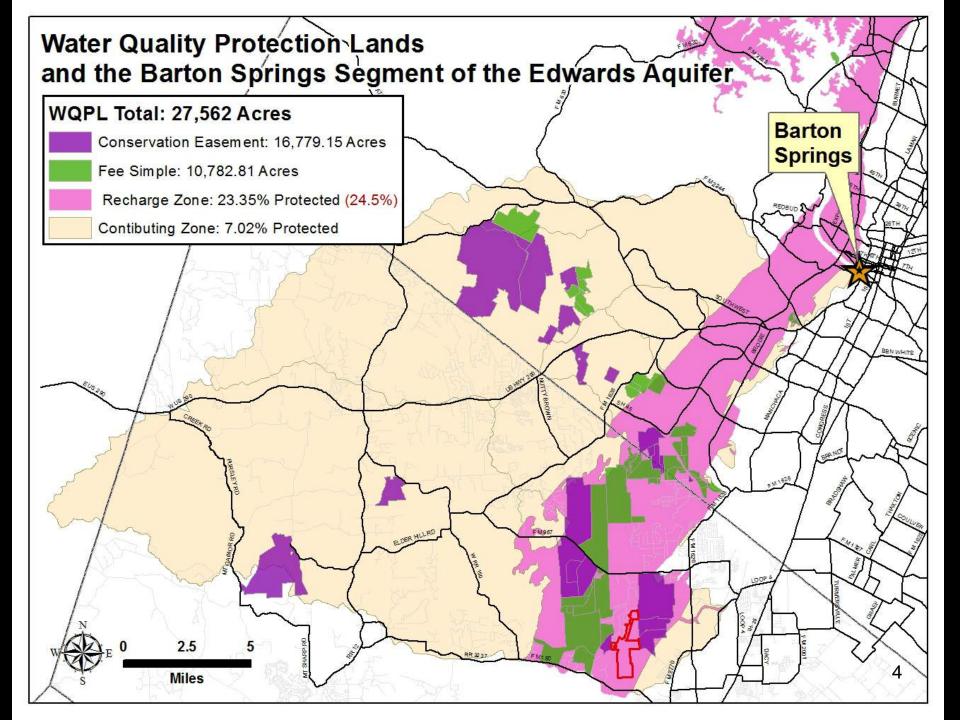
WATER QUALITY

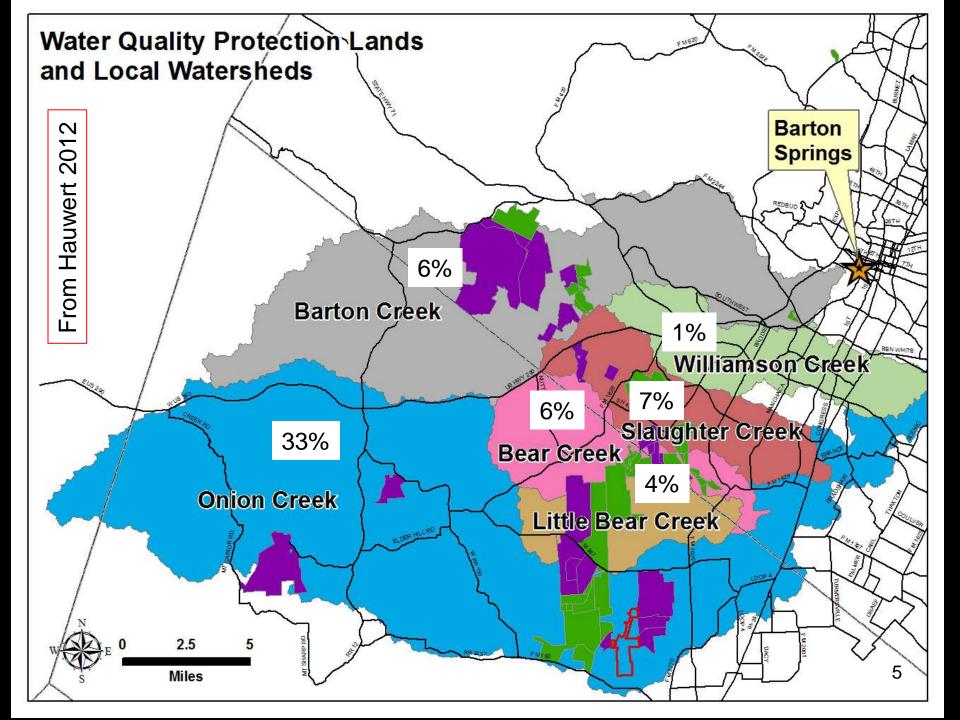
Kevin Thuesen, Ph.D

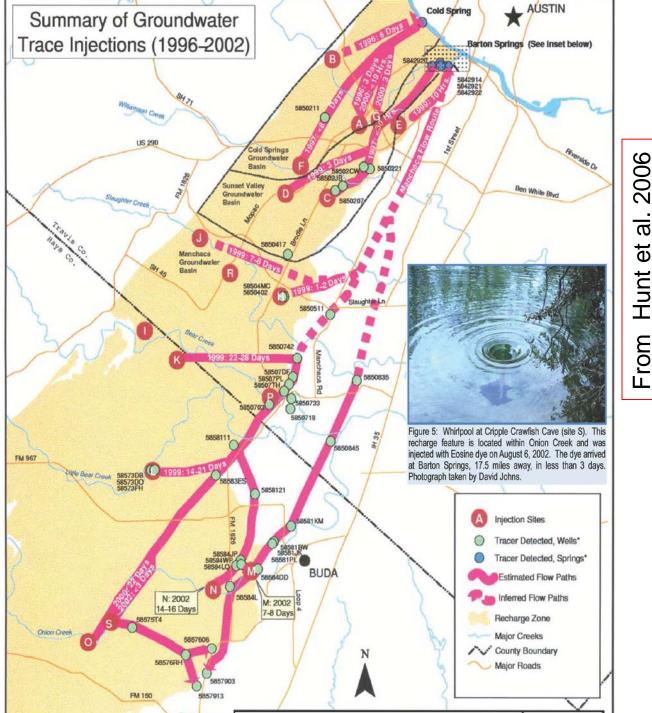
Vildland Conservation Division Vater Quality Protection Lands What Do We Do on the Water Quality Protection Lands?

 Optimize quantity of high quality water recharging off of project lands into the Barton Springs segment of the Edwards Aquifer.

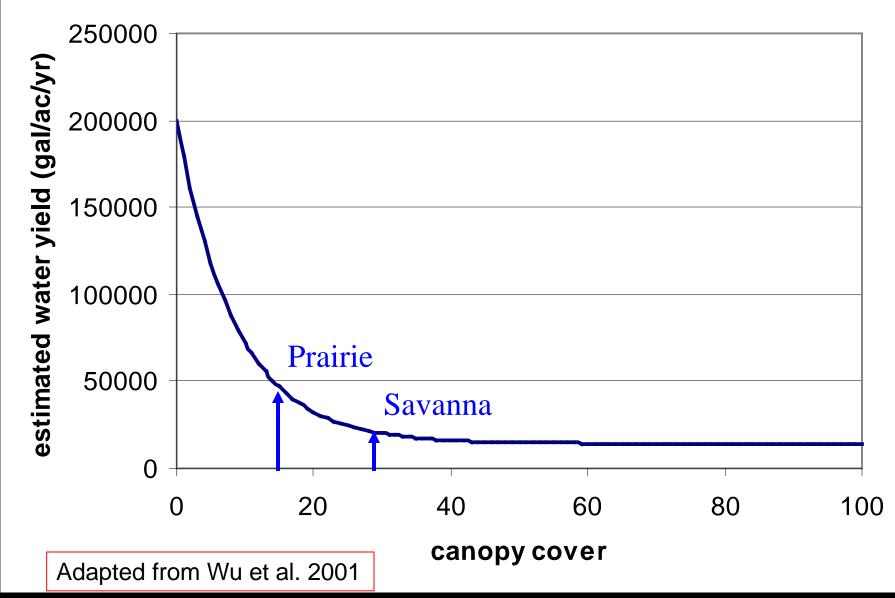




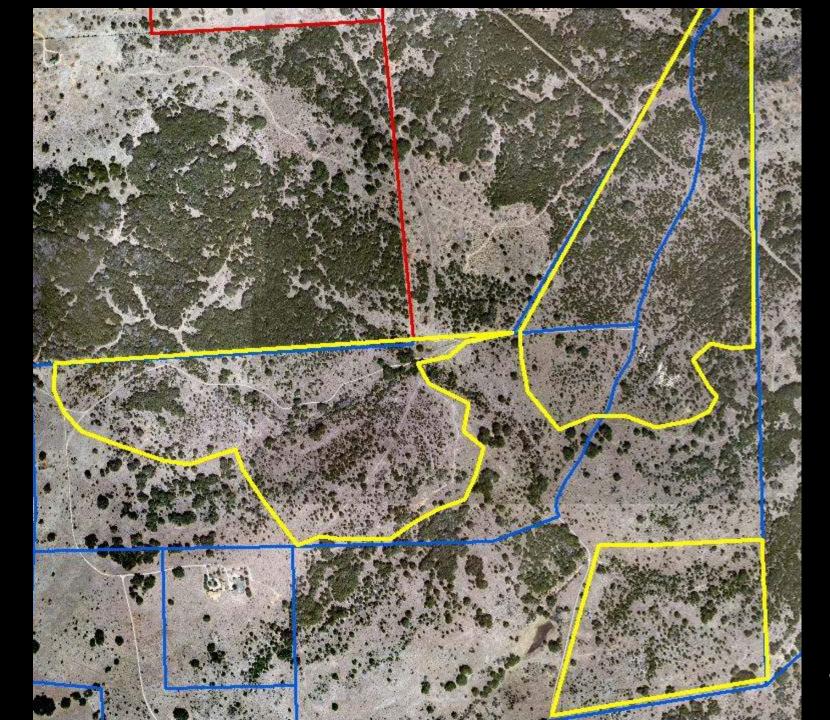


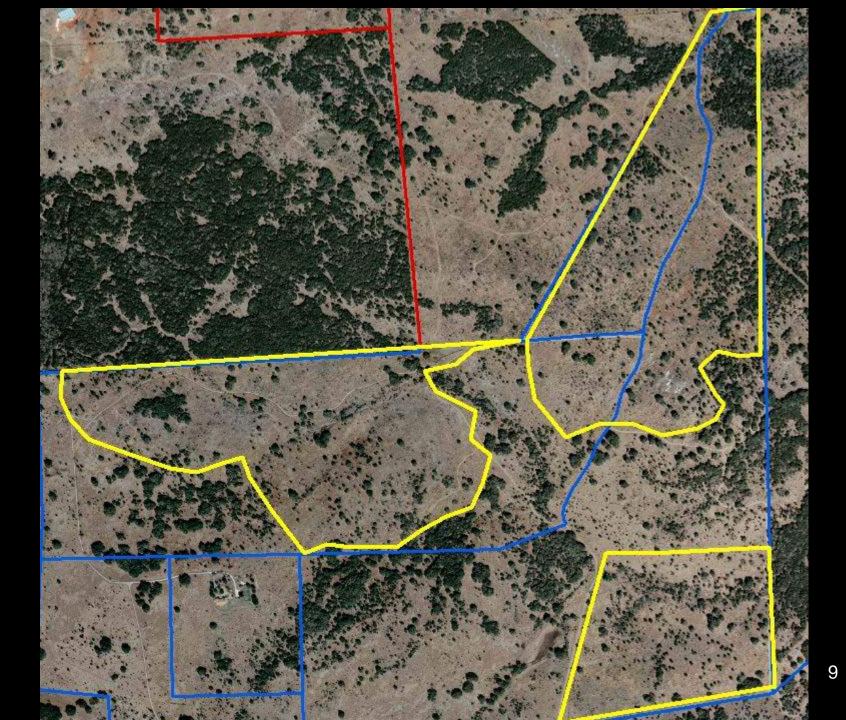


ສ et Hunt From



Water yield (gal/ac/yr) as a function of canopy cover. Model equation based on Austin historic rainfall: water yield = $100-(98.54-18.97e^{-0.116(canopy cover)})/100*977553gal/ac/yr.$ ⁷



























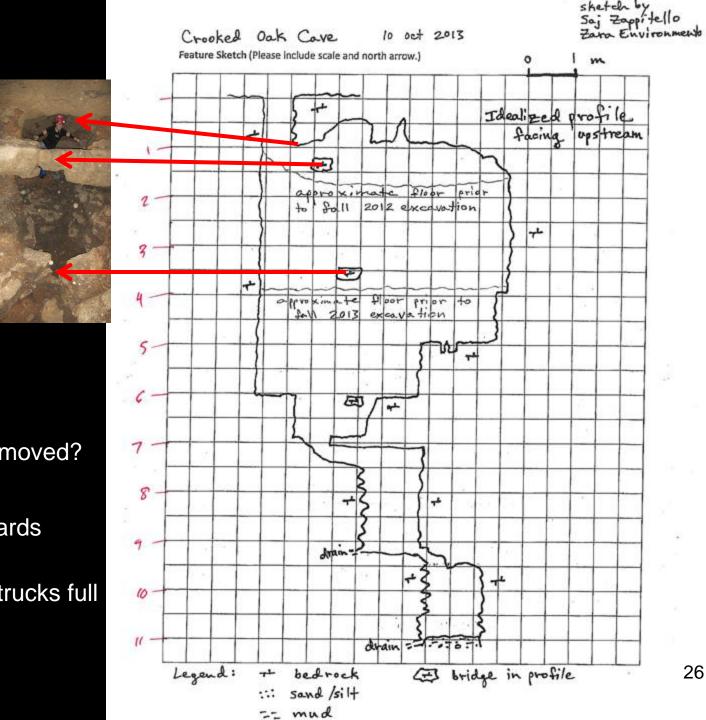












How much removed?

53 cubic yards

About 4 dump trucks full

And after 12 years of work...

SUCCESS!







Video of un-grated swallet

Video of un-grated swallet, less flow

Annual Accomplishments for 2014 (report in packet)

~75

1,350*

- Acres Added 1,705
- Acres Burned 1,470
- Acres Thinned 239
- Acres Seeded 75
- Acres Surveyed ES 4,252

- Volunteer Events
- Volunteer Hours

33

Thank You!



End of event at Crooked Oak