

Goats in the City: Targeted Grazing for Low-Impact Management of Sensitive Landscapes

What on earth is this presentation about?

- Lake Park's beautiful (but often invisible) lake.
- A crazy idea goats!
- A crazy idea that became an innovative, communityengaging, momentumgrabbing catalyst for water quality improvements.
- A crazy idea that had unexpected benefits.
- How to make this crazy idea mainstream.









Lake Park's Options

- Do nothing... and miss an opportunity
- 2. Use heavy equipment... expensive and disruptive
- Send city workers in with chainsaws... dangerous and temporary
- 4. Hire goats... and start thinking bigger!



- Founded in 2012
- Iowa's only professional targeted grazing company
- Launching a national network of affiliate grazing companies in local markets in 2017

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- Large project capability all over the Midwest
- US Fish & Wildlife Service; lowa Department of Natural Resources; state, county, and city parks; urban, suburban, and rural private properties

Targeted Grazing The application of a specific kind of livestock at a determined season, duration, and intensity to accomplish defined vegetation or landscape goals. AKA "Conservation Grazing," or "Prescribed Grazing."

Vegetation Challenges for Communities





- Dangerous/invasive/nuisance vegetation in parks, trails
- Vegetation management in sensitive places
- Choked drainages
- Overgrown utility easements
- Fire risk due to vegetative fuels
- Prescribed fire impractical
- Maintenance of sewage lagoons, retired landfills
- Surface mine reclamations and maintenance
- Undeveloped platted subdivisions, private properties

Why Grazing?

- Replicates historic conditions
- Promotes species diversity
- Builds soil
- Requires no (or less) herbicide
- Requires no (or less) mechanization
- Requires no (or less) burning
- Works on difficult and dangerous terrain
- Little-to-no erosion
- Saves labor



Why Goats?

- Browsers rather than grazers
- Preference for problem and invasive species
- Do not spread seeds
- Agility for rough terrain
- Virtually no erosion
- Convert nuisance into meat
- They're cute (seriously)





How it Works

- Electric netting and solar power make it possible
- Goats are concentrated in targeted areas and rotated
- Progress is closely monitored
- Can be used alone or with fire, manual removal, or herbicides





Strategies



- Stress/kill unwanted
 vegetation over time with
 grazing only
- Graze to reduce hazards and prep for follow-up
- Graze after manual removal to eliminate regrowth
- Graze for periodic clean-up



































Lake Park's Project

- Lake visibility project becomes shoreline restoration and water quality improvement project
- •NRCS joins the team and IDNR 319 dollars are accessed
- •Simple press releases and phone calls result in media attention, field trips, and a constant flow of traffic through the park
















Silver Lake

- 17,025 acres of watershed – mostly row crops
- A portion of city drains into lake
- 1,035 acres of lake
- 10.6 ft. max depth, 7 ft. average
- On impaired waterways list









Pre-Goats

You are looking at a...

A Rain Garden is...

a shallow depression that is planted with deep-rooted native plants and grasses. The garden should be positioned near a street drain, downspout, or a driveway to capture rainwater runoff. Deeprooted plants will absorb storm water runoff and prevent polluted water from entering the sewer system that drains directly into Silver Lake.

Native Plants Used... Wood's Pink Aster, New England Aster, Purple Coneflower, Stella D'oro Daylily, Spike Gayfeather, Raspberry Wine Bee Balm, Black-eye Susan, Feather Reed Grass, Little Bluestem



Project Sponsors: Water Quality Commission, Harris-Lake Park Community School District, 4 Evergreen Landscape and Design, Silver Lake Watershed Project, Silver Lake Park Improvement Association, Cohrs Construction Inc, Iowa Department of Agriculture and Land Stewardship, DNR Section 319, NRCS, Dickinson and Osceola Soil and Water Conservation Districts, and The City of Lake Park.

- One small rain garden project
- Community was not engaged
- Concept was abstract
- Hard to get traction

Post-Goats

- Broader public interest
- Concept associated with a visual cue a mascot
- A sense of excitement Lake Park in the news!
- Watershed study and spin-off projects
- A new economic development strategy Lake Park as an outdoor paradise!





and encourage others to do the same. If you're already a Life

Make it Happen in Your Community!

It's only a matter of time...What do your regs say?

"No horse, cow, calf, swine, sheep, goat, llama, camel, ostrich, peacock, chicken, goose, duck or other agricultural animal or any nondomestic animal shall be kept within the city's corporate limits on any lot or parcel of land..."



Regulation Tips

- 1. <u>What does "kept" mean?</u> Understand that targeted grazing is a very temporary service, much different than raising animals continually.
- 2. <u>Make an exception</u> most animal control/zoning codes make exception for rodeos, circuses, etc. Why not targeted grazing?
- 3. <u>Set reasonable limits</u>:
 - a. Goats and sheep only (guardian donkeys/llamas?)
 - b. Only females and castrated males
 - c. Limit "adult animal days" rather than total number of animals (e.g. no more than 400 per acre per year)
 - d. Set a maximum response time (rather than requiring 24 hour supervision from provider)
 - e. Require provider to be insured
- 4. <u>Don't be freaked out</u> by things that sound scary but aren't:
 - a. Horns
 - b. Electric fence
 - c. Manure

More Information

City of Salem, Oregon Resource Guide: Targeted Grazing with Goats (SRC 400-120(d)(3))

Prescribed Goat Grazing in Urban Settings: A Pilot Study of the Legal Framework in Nine U.S. Cities (Salter, MacDonald, and Richardson)

Questions?

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