

This presentation premiered at WaterSmart Innovations

watersmartinnovations.com



**Water Smart Destinations:
Saving Water Can Be Green,
and Promote Wildlife**



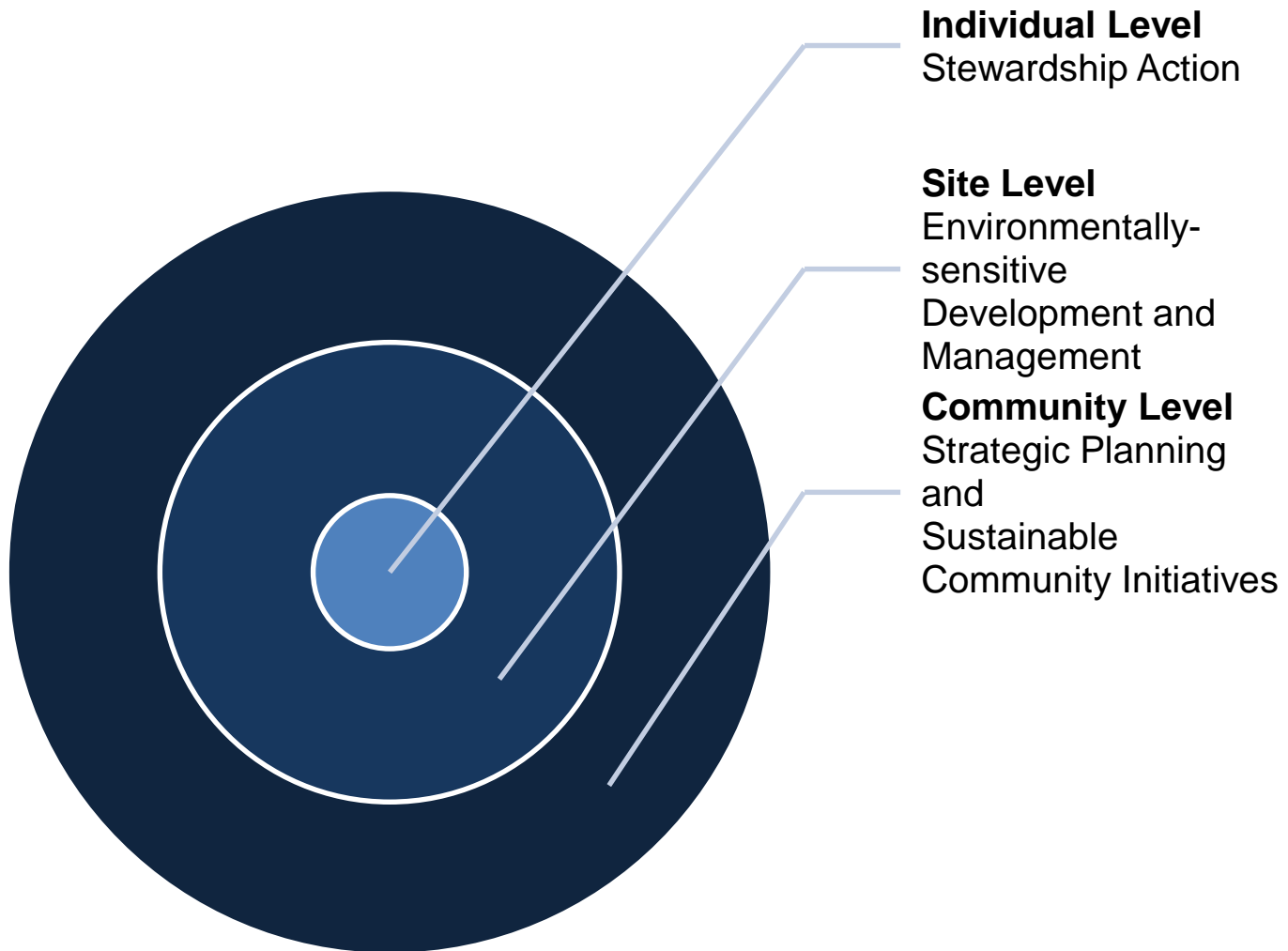
**Audubon
International**



Who is Audubon International?

Our Mission: To deliver high-quality environmental education and to facilitate the sustainable management of land, water, wildlife, and other natural resources in all places people live, work, and play.







Audubon International Certification Programs



Audubon Cooperative Sanctuary

- ***Existing*** property-scale facilities and developments including golf course, schools, businesses, ski areas, etc.



Audubon Signature & Classic Program

- ***Planned*** property-scale facilities and developments
- ***Redesigned*** facilities and developments



Audubon Green Lodging Program

- ***Existing*** hotels, resorts and other lodging facilities



Audubon Sustainable Communities Program

- ***Existing*** Municipalities, private communities, lake associations



Where are Certified Members?



Why are these programs so important?

1. Address each facility's specific environmental issues and opportunities.
2. Assist facilities in becoming, and being recognized as, *community environmental assets*.





Six Environmental Focus Areas

Environmental Planning
Wildlife and Habitat Management
Chemical Use Reduction and Safety
Water Conservation
Water Quality Management
Outreach and Education





Water Conservation

- **Maintain irrigation equipment for maximum efficiency and minimal water waste**
- **Maintain soil and turf health to maximize water absorption and minimize water loss due to evaporation and runoff**
- **Reduce water consumption**
- **In some cases, reduce irrigated turf acreage**



Water Quality Management

- **Employ Best Management Practices or structural controls near all water features to minimize potential for chemical runoff, nutrient loading, and drift**
- **Monitor health of water features**
- **Understanding your watershed**
 - **Where does water enter, exit the property?**
 - **Does it improve, decline or stay the same as it moves through?**

Your Ecoregion



Native Plant Examples

Appalachian Oak Forest

- Canopy
 - *Carya glabra* pignut hickory
 - *Castanea dentata* American chestnut
 - *Quercus alba* northern white oak
- Woody Understory
 - *Amelanchier* spp. service-berry
 - *Cornus florida* flowering dogwood
 - *Kalmia latifolia* mountain laurel
 - *Vaccinium corymbosum* highbush blueberry
 - *Viburnum acerifolium* maple-leaf arrow-wood

Find Local Plant Materials

- Buy locally grown native plants
- Buy propagated, not wild-harvested

Exception: salvage plant material from land that will soon be under construction

Resources

Lady Bird Johnson Wildflower Center
www.wildflower.org

Native Plants

- [About NPIN](#)
- [Bibliography](#)
- [Botanical Glossary](#)
- [Drought Resources Center](#)
- [How To Articles](#)
- [Image Gallery](#)
- [Mr. Smarty Plants](#)
- [Research Literature](#)
- [Native Plant Database](#)
- [Organizations](#)
- [Special Collections](#)
- [Step By Step Guides](#)
- [Suppliers](#)
- [Wildflower Quiz](#)

[The Importance of Genetics](#)

There are concerns about introducing species into a region where they were not previously growing. If you are not familiar with these concerns, please read the Importance of Genetics.

[Selecting a Suitable Supplier](#)

It is important that anyone contacting suppliers in this directory understand that it is their own responsibility to ensure that they are getting a reliable and quality product. For help choosing a supplier,

NATIONAL SUPPLIERS DIRECTORY



This directory has been compiled to make it easier to find businesses that sell native plants or seeds and provide professional landscape or consulting services. Use the search options below to find help for your native plant needs [here](#) to add your business to the directory. *Associates are providers of native plant services who offer Wildflower Center members a discount on merchandise or services. To qualify, at least 50% of an Associate's projects or inventory must be native plants.*

Search suppliers:

[List all Suppliers](#) | [List all Associates](#)

Based on your location search, these Suppliers are closest from nearest to farthest.

NURSERIES

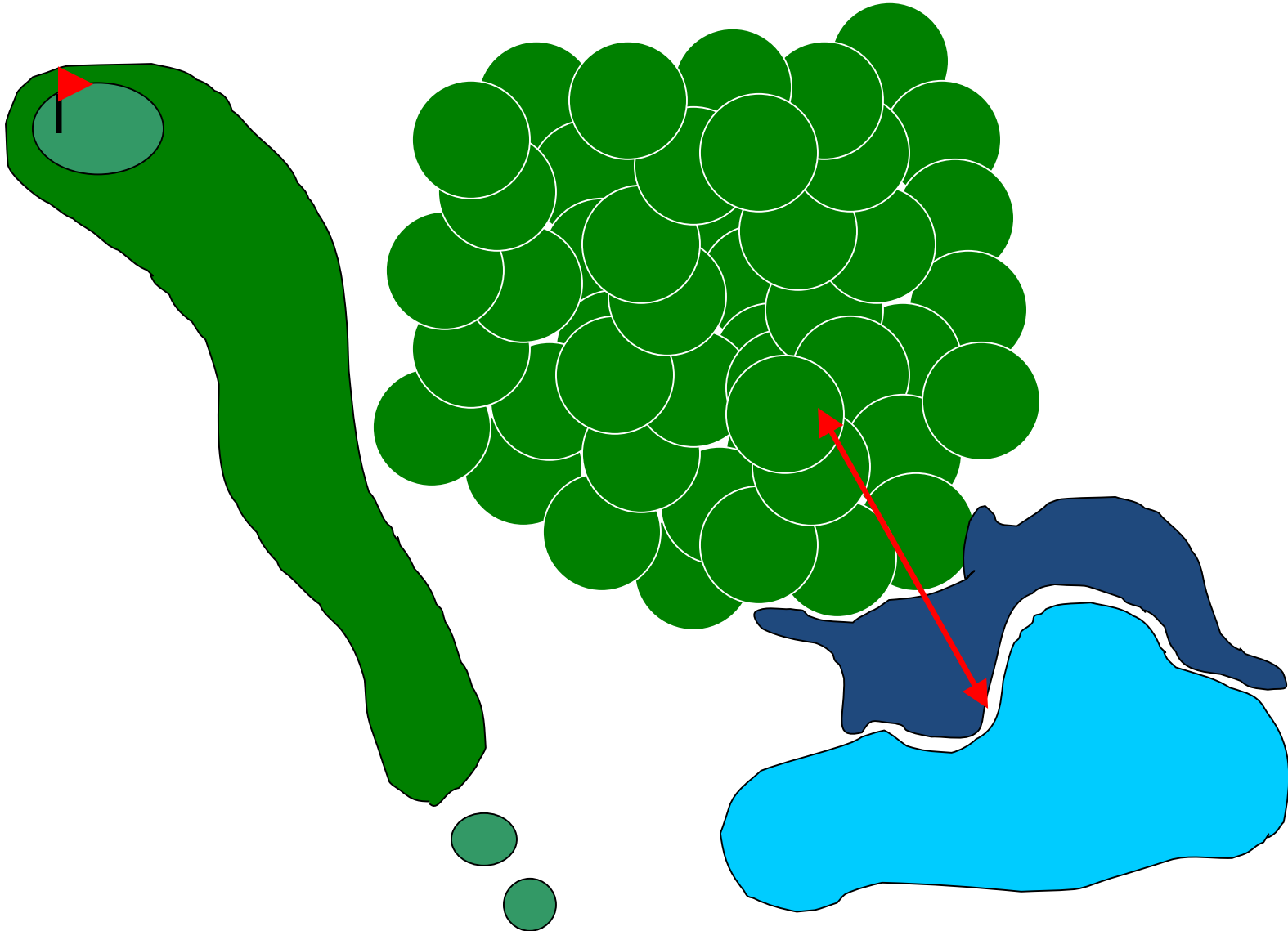
Name	Location	% Native	Associate
Star Nurseries	Las Vegas, NV		
Blue Diamond Nursery	Blue Diamond, NV		
'Ahakhav Tribal Preserve	Parker , AZ	100	Yes
Green Desert Wholesale Nursery	Indio, CA	50	Yes
Antelope Valley Resource Conservation District Nursery	Lancaster, CA		
Mourning Cloak Ranch & Botanical Gardens	Tehachapi, CA		

[Find more Nurseries](#)

SEED COMPANIES

Name	Location	% Native	Associate
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Management Tools & Techniques



Management Tools & Techniques



Scribble Maps

The screenshot displays the Scribble Maps web application interface. At the top, a browser address bar shows the URL: <https://scribblemaps.com/create/#lat=42.78989529668901&lng=-73.89576932695309&z=16&t=hybrid>. The main map area shows a hybrid view of a residential neighborhood in Schenectady, NY, with street names like Oregon Ave, Park Ave, and Balltown Rd. A toolbar at the top left contains various drawing tools such as a hand, eraser, and selection tools. A search bar at the top left contains the text "400 Oregon Ave, Schenectady, NY 12304, United States". The bottom of the interface features a Google logo, a "Create Legend" button, and map data attribution: "Map data ©2016 Google Imagery ©2016, Cnes/Spot Image, DigitalGlobe, New York GIS, USDA Farm Service Agency". The bottom right corner includes a scale bar (100 m), a "Terms of Use" link, and a "Report a map error" link. The Scribble Maps logo is visible in the bottom right corner.

Case Studies





Stowe Mountain Resort, VT

- Water running through the mountain streams is used sparingly and repeatedly on the resort property, which protects resources for the agricultural lands downstream.
- Several storm water basins catch runoff, slowing and filtering meltwater before it leaves the property, and providing a unique source of “reclaimed” water for landscape maintenance, snowmaking, and golf course irrigation.
- Moose, black bear, peregrine falcons and Bicknell’s thrush all inhabit the resort





Bethpage Golf Course: Black & Red, NY

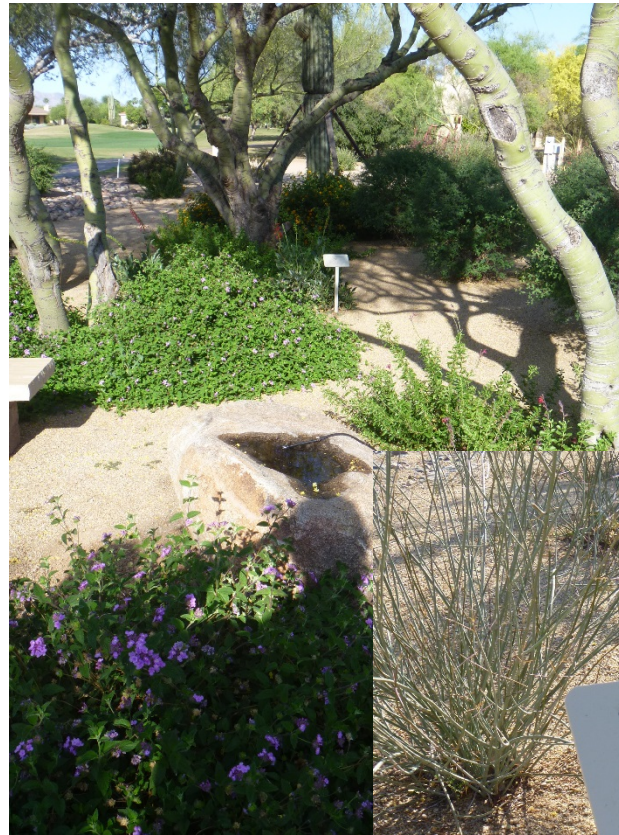
- Broomsedge is a low-maintenance grass native to the eastern United States. This species thrives in open areas, growing to be three feet with limited water and fertilizer. The course started propagating their own seed
- Course has seen an increase in ground mammals due to increased cover
- Dropseed also added to control erosion, increase in sparrows and finches





Rio Verde, AZ

- Butterfly garden provides an oasis for native species in a desert landscape
- Community volunteers and country club staff worked together to add natives
- Signage used in the area to outreach to the community





TPC Summerlin, NV

- Previously a Sheep's fescue meadow, watered
- Capped irrigation lines, dead grass removal,
- 18 species of desert plants added, desert rock and soil moved from other parts of the property.
- **SIGNAGE USED!**
- 90% reduction in man-hours, half a million gallons of water / year
- **TOTALS ; \$3000 to implement, \$2000 per year saved**
- Increased in desert species including Mojave rattlesnake and red-spotted toad



Beaver Tail Cactus



Riverside, CA

- City of Riverside Public Utilities started a campaign to encourage drought tolerant plants
- “less water, more color”
- By encouraging native plants, they are encouraging native species and pollinators





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LinkedIn

YouTube