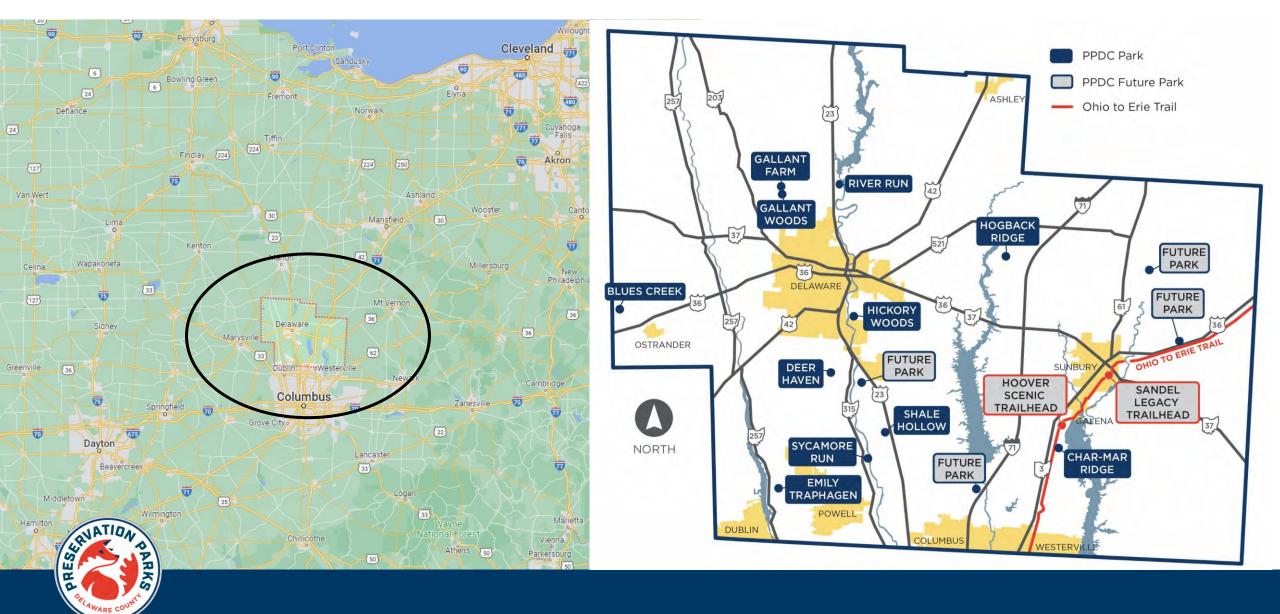


Tree Planting: Lessons Learned Chris Roshon Preservation Parks of Delaware County

Preservation Parks of Delaware County



The Natural Resources Department

- 2 Full-time Staff
- + 3 Summer Seasonal Employees
- + Volunteers
- + Assistance from Park Operations





McCammon Creek Park Tree Planting 2017-2022

110 acres of former field

- 80,000 Seedlings
- 870 Potted
- 1,075 B&B





Considerations when choosing sizes

Expense

- Weight
- Watering
- **Aesthetics**
- **Planting Window**



Comparing Options



- Bareroot
- + Least expensive
- + Easy to handle
- + More species available
- + No watering
- Less visible
- Higher mortality?
- Short planting window



- + Immediate visual **Potte** impact
 - + Easier to handle than B&B
 - Watering required
 - Most likely to be blown over
 - Animals dig in loose soil





- + Most impressive
 - Immediate impact
- + Stable once planted
- Expensive
- Heavy
- Watering required
- Least native species available



A Word on Benefits of Variety (Species and Size)







Immediate Impact



Equipment Needed





Planting Height

Too Shallow

Too Deep



Warning: Use Care When Planting with an Auger



Regular watering is necessary (and difficult in remote locations)





Beware of Cultivars and Non-Natives





Seedlings

Ohio Buckeye

Spacing	6'x 6'	7'x 7'	8'x 8'	9'x 9'	10'x10'	11'x11'	12'x12'
Quantity/Acre	1,210	889	681	538	436	360	302

@ 6' spacing = \$0.75 each

(\$907.50 for 1,210 trees/acre) *Materials only*

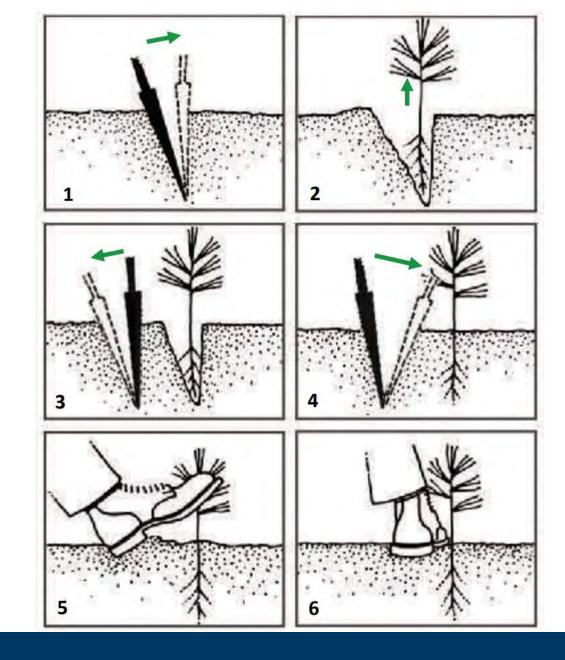
Heeling in seedlings until ready to plant





Proper Planting With a Dibble Bar







Correct Planting is CRITICAL



Tractor Planting (~4,000 seedlings per day)







What you want to see (furrows)



Avoiding Straight Rows



Seedling Planting Methods

Dibble Bar

- Plant 400 a day
- Works in saturated soil
- Works on uneven ground

Tractor Planter

- Plant 4,000 a day
- Needs unsaturated soil
- Needs even ground

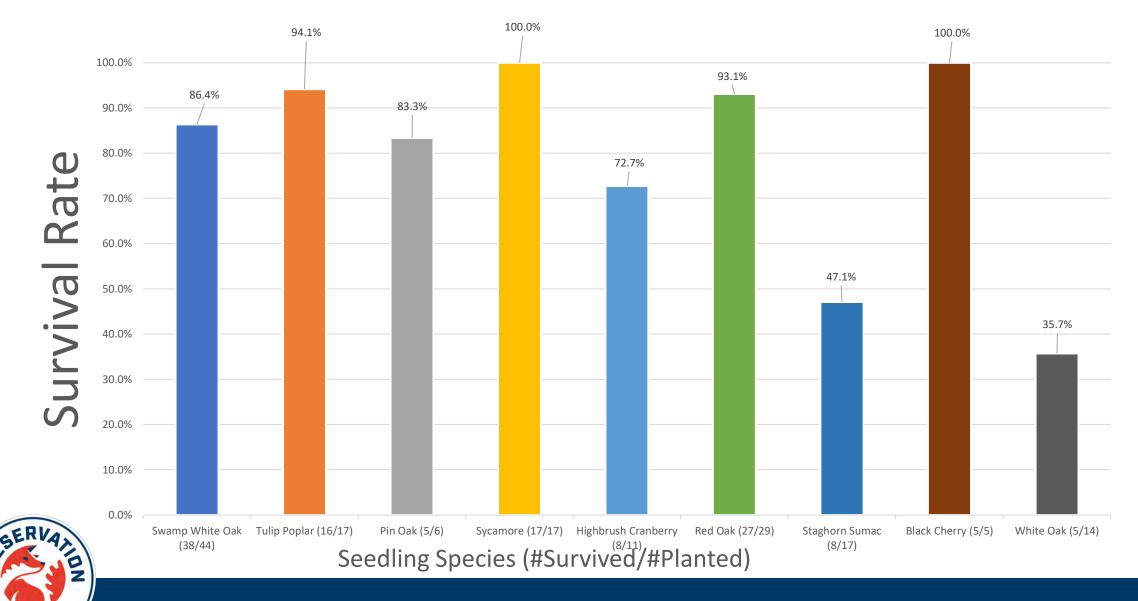


Growth Rates Vary by Species

Seedlings after 2.5 growing seasons







Seedling Survival After 2 Growing Seasons

Seedlings after 10 Growing Seasons



Shale Hollow Park

Sycamore: Beyond the Water's Edge





Gallant Woods Park Planted as

...11 years later

Planted as Seedlings

ARKS

Planted as Seedlings

Photo Date: April 2021

River Run Park



River Run Park



River Run Park - 11 Years Later



Threats.... Meadow Voles, Invasives, Deer, Mowers...











Tree Trunk Covers





Thank you!

Chris Roshon croshon@preservationparks.com

