

NYC Parks' Grow Bag Tree Strategy

Nave Strauss, Director of Tree Planting and NYC Parks Tree Time Environment & Planning



BACKGROUND



- B&B
- Bare-root/Missouri Gravel
- Plastic container
- Grow bags



Balled and burlapped trees being planted in Long Island City, 2023. Photo credit: Haley Hix, NYC Parks





B&B production – liner stages







• B&B production – liner to harvest









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B&B production –harvest





What is a "grow bag tree"?

Soft/flexible container made from plastic or synthetic fabric





How is it grown?

Grown either in ground or above-ground...or...







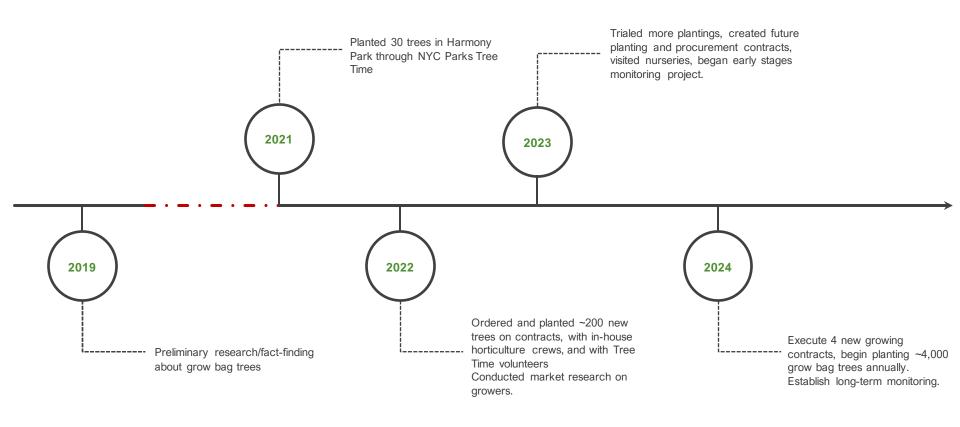
How is it grown?

Field-grown, bare-rooted, and placed into a bag until all fine feeder roots are established.





Timeline: Where We've Been, Are, and Are Going





Why Use Grow Bag Trees?

- Compared with B&B, they have all their roots in the package +
- Compared with plastic hard-sided containers, should not have any root girdling issues +
- Compared with B&B much lighter and easier to handle due to soilless growing medium +
- Compared with B&B no digging season



Price savings?



Planting Season Compared to Tree Availability

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Tree Planting Seasons												
B&B Harvesting Seasons												
Grow Bag Tree Availability												



How have we trialed them so far?

On contracts



In-house planting Volunteer plantings







Planting Over Utility Lines in Jackson Heights

Significant community interest in restoring lost canopy in a historic district.









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In-House Planting









How have we trialed them so far?

On contracts



Volunteer plantings









Volunteer Plantings







Next Steps

Research Best Practices

Visit regional growers

Ask other municipalities across the country and world about their experiences.

Develop New Contracts

Four tree procurement contracts, include grow bag trees in scope.

Create new planting contracts from FY24 and on with grow bag planting items.

Execution

On contracts

Through In-House Tree Planting Pilot Program

Continue use on Tree Time Volunteer events

Monitoring

With USDAFS



Contract Mechanisms – New Tree Procurement Contracts

- Developing specifications, required species lists, and quantities to be grown.
- Create new tree procurement contracts to provide increased numbers of grow bag trees directly to NYC Parks.
- ❖ 25-, 35-, and 45-gallon sizes



A Collaborative Effort

- GNPC Seed Bed to Tree Bed Liner-ready trees.
- Other liner or seed sources for tough-to-grow plants across the nation









Monitoring

Design monitoring study with USFS - Phase 3

- * Focus on establishment success or failure
- Compare with B&B trees of same species
- Focus on vigor, as measured by various indicators.
- Could form the beginning of a comparative study for longevity



Conclusion -- ASPIRE

- Adapt to challenges
- Select for resiliency
- Plant more trees
- Increase survival
- Reduce costs
- Employ new technologies

