

10 of our best decisions at Verbinnen's Nursery

Alex Verbinnen





Our Markets

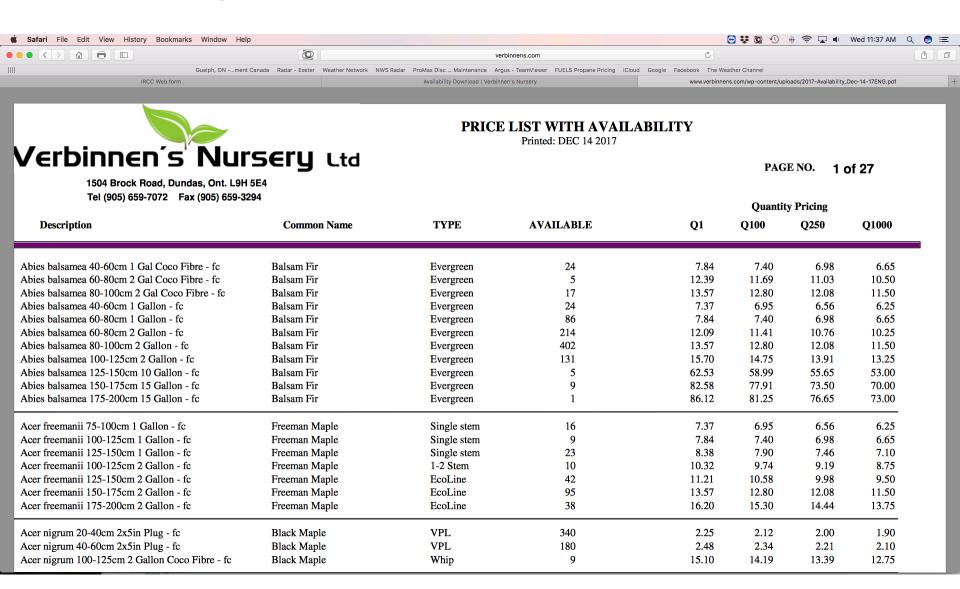
- Naturalization Landscaping
- Conservation Authorities and Municipalities
- Other Nurseries





10 of our best decisions...

#1 Posting our Availability List Online



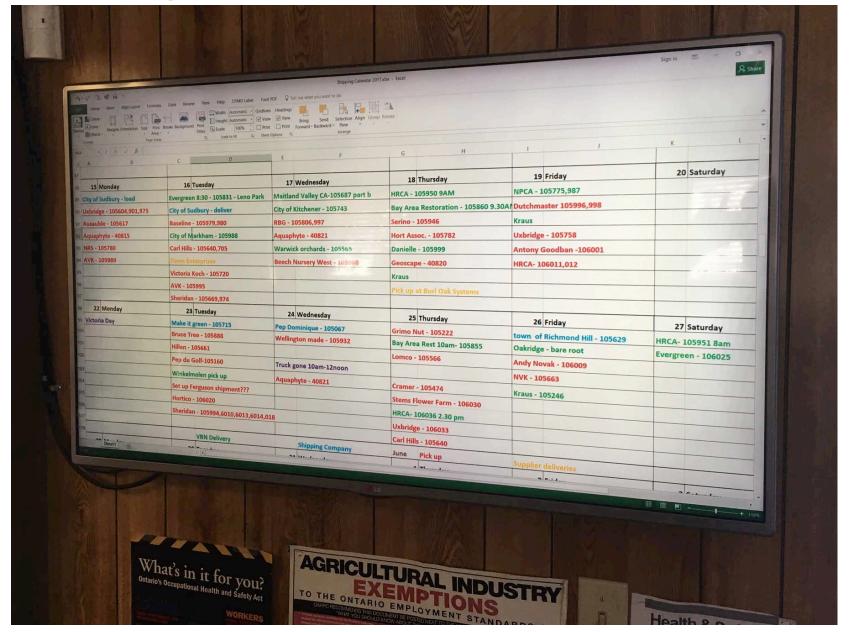
#1 Posting our Availability List Online

- Our customers know clearly what we have
- Saves time for our office staff



- Customers often email an order of exactly what they want.
- Less room for error
- Our program makes it simple to generate a current availability list

#2 Shipping Schedule Monitor



#2 Shipping Schedule Monitor







- Microsoft Excel Program
- Easy for Office Manager to keep up to date
- More accurate = less mistakes

#3 Colour Tags and Identification Code

Color represents seed zone



- ✓ Easier Shipping
- ✓ Easier Inventory
- ✓ Less Error

#3 Colour Tags and Identification Numbers

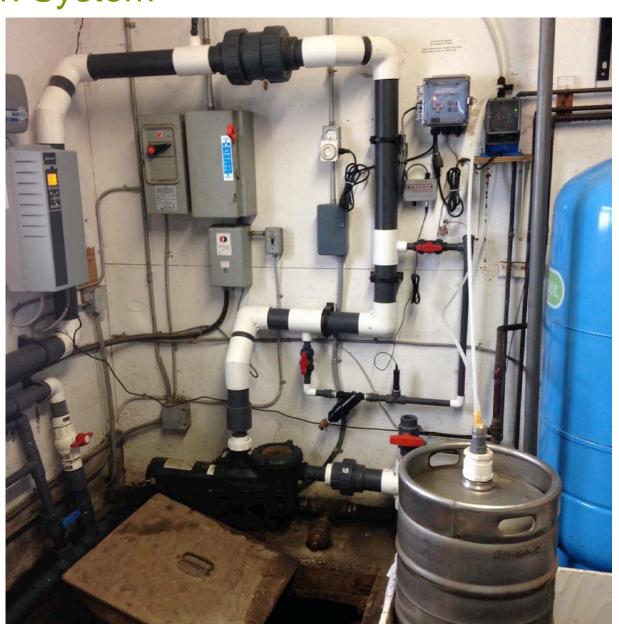
Zone 32 Juniperus virginiana Seed Zone 23. May 2017 Format at beginning ■Source Year it started with us

Identification (ID) Code

- Easy to implement
- Benefits of tracking
 - Monitoring good performance
 - Monitoring poor performance
 - Helps to solve inventory problems
 - Customer confidence

Installed in our greenhouse in 2010

Adjusting pH to 6.0



Our Water

Submitted for: Verbinnen's Nursery - Alex Water

Client Sample ID: Water Sample #1

Sample description: Back Well

Analysis		R	esults
pH	7.28		
EC (Total Salt)	0.90	(mmhos	/cm)
Total Dissolved Solids	576.00	(ppm)	
Nitrate Nitrogen	6.00	(ppm)	
Chloride	86.00	(ppm)	
Bicarbonate	326.35	(ppm)	
Total Hardness	413.74	(ppm)	
Phosphorus	<1.00	(ppm)	
Potassium	3.23	(ppm)	
Calcium	121.41	(ppm)	
Magnesium	26.77	(ppm)	

Acer rubrum

Production Qty:

2009: 0

2017: 17,500



Seeded: April 17/17 Photo: July 24/17

Extended to Container Area Behind Greenhouse



Acer rubrum – 2 gallon

- Sown April 2016 Potted May 2017
- Healthy liners



Cost in Use

In 2016 we used \$440 of Sulfuric acid



\$416 for Greenhouse (94.5%)

■ \$24 for 2 gallon Acer rubrum (5.5%)

Build your own

A water containment system is required

Materials	Approximate Cost
Pool Pump	\$500
Pulsatron Chemical Pump	\$775 (meteringpumpsusa.com)
Walchem Controller	\$1,500
Sensor	\$200
Plumbing supplies	\$150
Total	\$3,125

For our system: We paid \$4,225 in 2010 (not including installation)

Typical Method

Begin with 1yr plug/BR liner





Ready for sale (Mid Summer – Fall)

"Early Summer Potting Method"

Plug Seeding (March - May)



Potted – 1 gallon (Early July) *Prime*



Ready for sale (Fall & Spring)

Early July





Benefits

- Lower input cost
- Avoid potting during spring rush
- Opportunity to adjust production based on spring sales
- Lower irrigation required over summer
- Healthy plants

Dimensions: 16" x 24" Cost: ~\$2.50 ea.



- Spacing
- Carry more

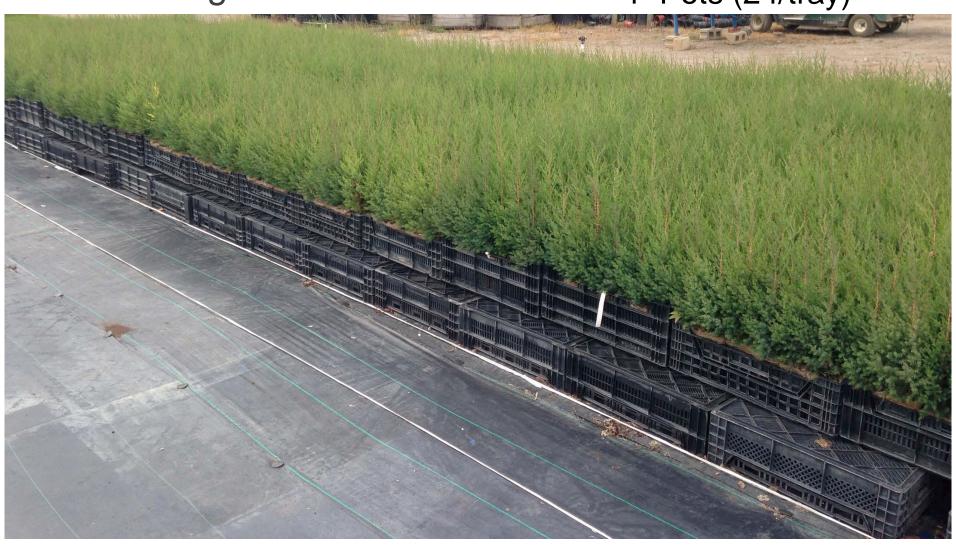


Wind Blow Over Prevention



Growing

4" Pots (24/tray)





Former Method: Hand Spraying



Cannon Sprayer



Versatile: used for plugs, container (1 – 15gal), Field



Electric valve = easy to "spot spray"



	Hand Spraying	Cannon Sprayer
People Required	2 person	1 person
Time	3hrs +	2 hrs
Product used	700L	400L
Consideration of task	avoided	Not avoided
Canopy penetration	Poor	Good
Area of leaf coverage	Тор	Top and bottom
Spray uniformity	Poor	Better, but not great
Exposure to chemical	More risk	Less risk







Drip Irrigation pipe installed under plastic



Plugs sown in the greenhouse in April



Planted into the field in June/early July



September



October - Novebmer





Results:

- Bigger plants
- "Landscape ready plants"
- Far less weeding labour (\$)
- Far less water usage





1st Year

Seeded in April

Air pruning pot

Ready for planting in June

June (1st yr)



October (1st yr)



Spring (2nd yr)



June (2nd yr)



#9 System for Bare Root Tree Whips Autumn (2nd yr)

Quercus rubra







Verbinnen's Relationship Model

- 1.God
- 2. Employees
- 3. Business



The True Picture

Thank You! Merci!



www.verbinnens.com