



Pearl's Premium Saves You Time, Money & Water

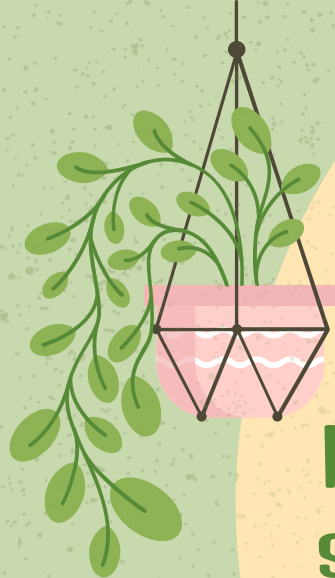
- Saves hundreds of dollars in lawn watering, fertilizer and mowing each season
- Never / seldom needs watering once established (drought tolerant grass seed)*
- Grass grows so slowly, only needs cutting once a month
- Thrives without chemicals and pesticides
- Eliminates hours of lawn mowing and lawn maintenance each month
- Cuts your carbon footprint
- Stands up to heat (sunny mix); grows in deep shade (shady mix)
- Creates a lush beautiful organic lawn
- Eco friendly lawn stays green all year long

Try our eco friendly grass seed. Other people have and [they love it!](#)



DISCOVER MORE SIZES
for your perfect lawn!

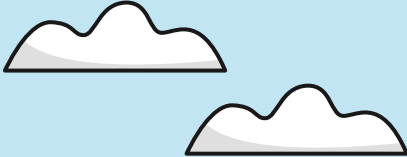




"I am SO tickled with our Pearl's Premium lawn, particularly the strip between the sidewalk and street. That strip has never looked so good and so far NO DANDELIONS! Our lawn looks BEE-U-TEE-FUL!"

Marge, Marblehead, MA





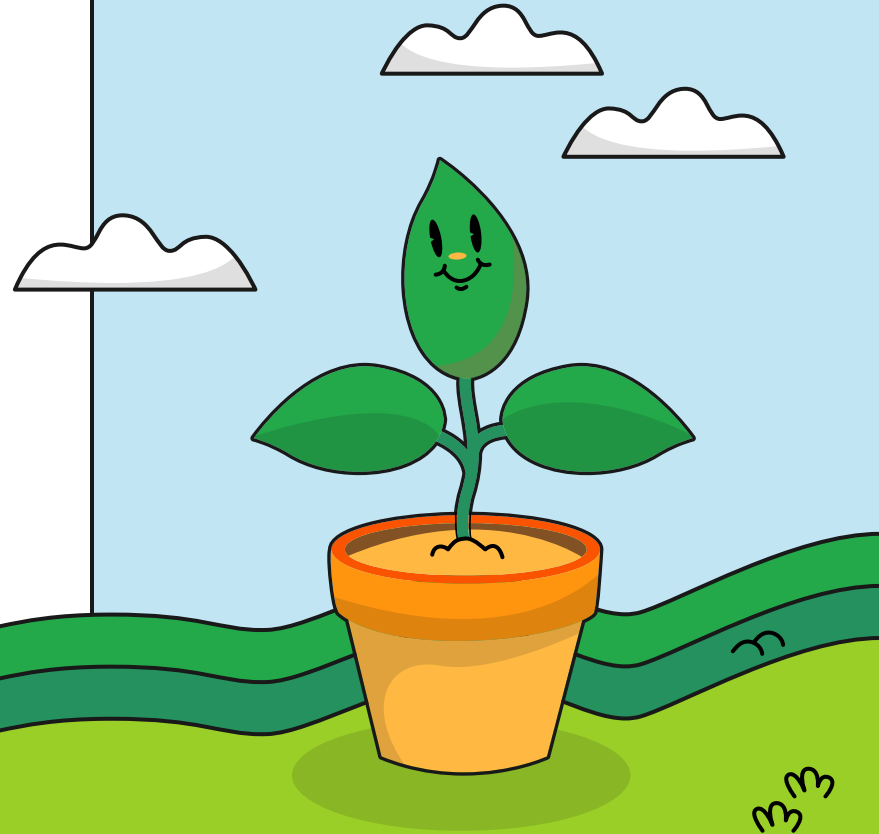
01

***The challenges we
faced....***



Many...

- Getting our order on time/ issues getting expenses approved by grant association
- Carrying and filling up 24 5-gallon buckets
- Watering everyday during the establishment period
- Watering during spring break
- Getting locked out of the greenhouse mid watering ???
- Changing our watering amount
- How to drain pans

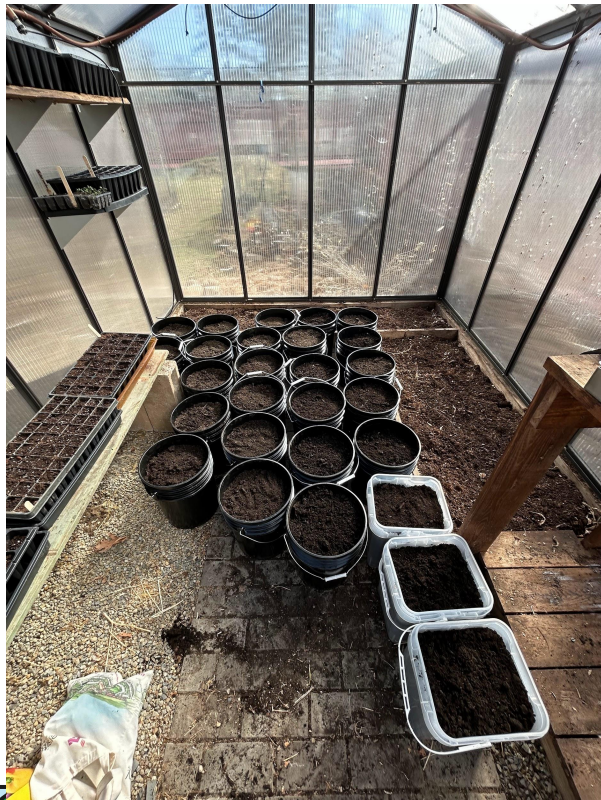


Getting our order in time

- Initially planned to start testing in early March
- Orders arrived late March



Carrying the buckets



Watering everyday

[illegible]

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Watering during spring break



Getting locked out of the greenhouse



Changing our watering amount

Original watering plans

During establishment
period: water $\frac{1}{2}$ daily
Post establishment
period: Water half
buckets $\frac{1}{2}$ gallon and
other half $\frac{1}{4}$ gallon

New watering plans

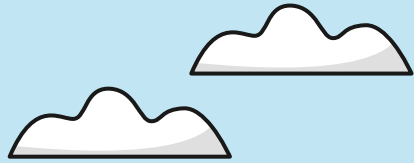
During establishment
period: water $\frac{1}{4}$ daily
Post establishment
period: Water half
buckets $\frac{1}{4}$ gallon and
other half $\frac{1}{8}$ gallon



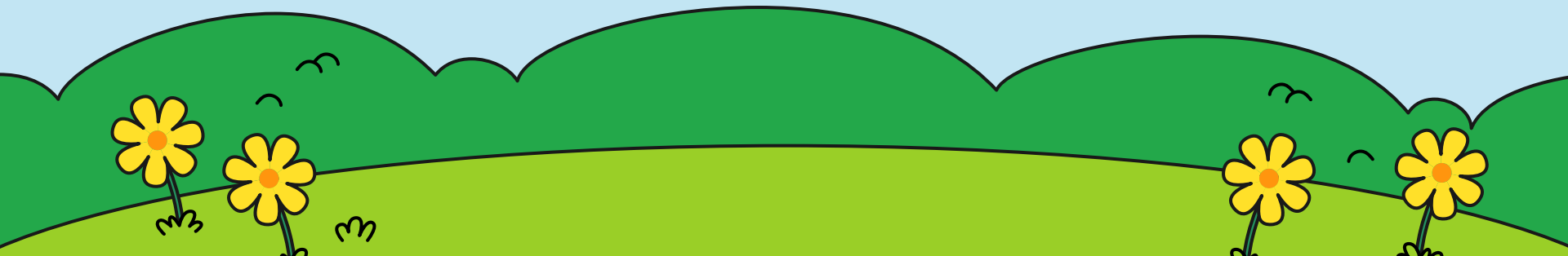
How to drain pans?

Solution?





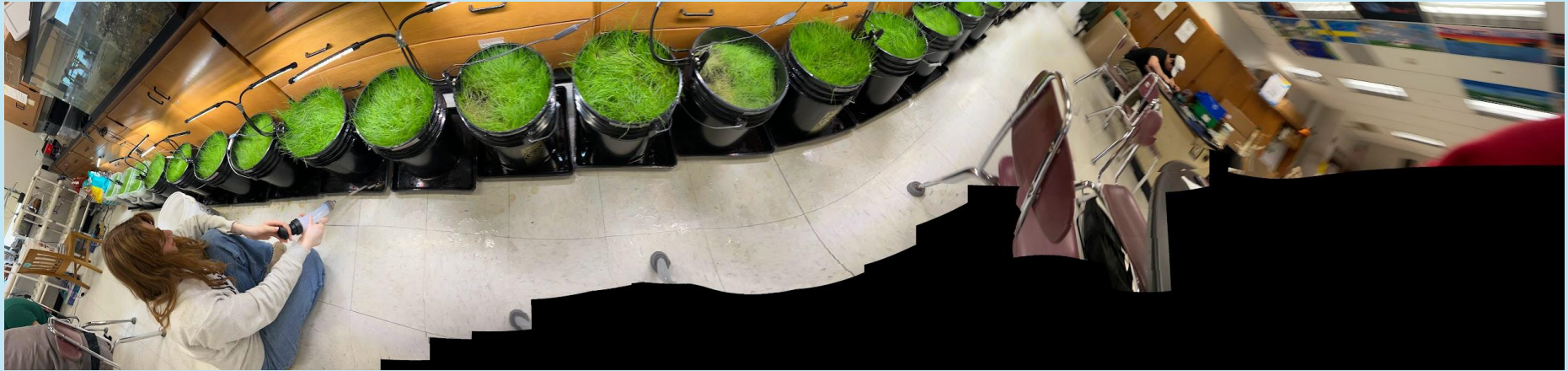
02 *Things that went well*





Establishment period over!







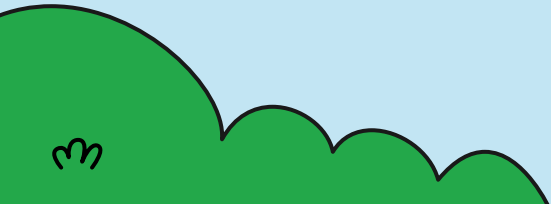
***Things that
didn't go so
well...***

03

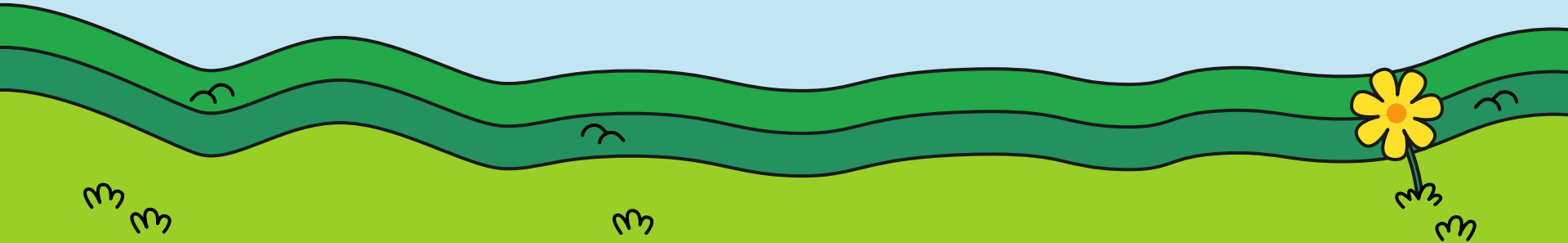


A picture is worth a thousand words

***Also bugs in the
classroom...
we're sorry...***



Our Results



Pearls Premium on top!

- When comparing 3 of the no watering grass seeds:
RL = root length; GL = grass length
 - Pearl's Premium
 - RL: 11 mm (highest when not watered)
 - GL: 16mm
 - Scotts
 - RL: 3mm
 - GL: 7mm
 - American Meadows
 - RL: 6mm
 - GL: 9mm



Comparing average root lengths

- **Pearl's Premium: 8cm**
- Scotts: 4.86cm
- American Meadows: 4.57cm



Comparing average grass length

- **Pearl's Premium: 15cm**
- Scotts: 10.7cm
- American Meadows: 9.3 cm

Is this a good thing??



Interesting development!!

Other than the occasional dead grass, root length only increased the less it was being watered. With the highest root depth typically being when the grass was watered once a month!!



Why is root length so important?

Water – Deeper roots reach more water, especially during drought.

Nutrients – Access to more soil nutrients supports growth.

Stability – Strong roots anchor the grass firmly in place.

Stress – Long roots help grass resist heat, drought, and damage..



Our data, if you're interested!

Pearls Premium							
	P 1/7 1/4 gal	P 1/14 1/4 gal	P 1/30 1/4 gal	P 1/7 1/2 gal	P 1/14 1/2 gal	P 1/30 1/2 gal	No water
Root length	7cm	5cm	7cm	7cm	9cm	10cm	11cm
Grass length	18 cm	15cm	16cm	15cm	15cm	16cm	16cm

Scotts						
S 1/7 1/4 gal	S 1/14 1/4 gal	S 1/30 1/4 gal	S 1/7 1/2 gal	S 1/14 1/2 gal	S 1/30 1/2 gal	No water
5cm	6cm	6cm	3cm	4cm	7cm	3cm
13cm	11cm	14cm	11cm	8cm	11cm	7cm

American M						
AM 1/7 1/4 gal	AM 1/14 1/4 gal	AM 1/30 1/4 gal	AM 1/7 1/2gal	AM 1/14 1/2 gal	AM 1/30 1/2 gal	No water
4cm	6cm	7cm	5cm	0cm	4cm	6cm
10cm	9cm	11cm	9cm	0cm	10cm	9cm



Given more time/funds/resources

- Test the 1 per month watering group more
- Expand the study to different types of grass
- Test in a separate room to avoid anomalies (rigged bucket)
- Test buckets in different environments (No sunlight??)



Going forward

- Present our findings to the Ridgewood Board of Education
- Convince people to change their lawns by using our findings



Thanks

