

GROWING SEASON PLAN



RANGEVIEW 2023



RANGEVIEW HOMEOWNERS ASSOCIATION

GROWING SEASON PLAN INTRODUCTION

This document contains details about the RHOA's plans for the following spaces the greenhouse and outdoor community garden in Rangeview.

 [Jump to the Rangeview greenhouse plans for 2023](#)

 [Jump to the community garden plans for 2023](#)

 [Jump to volunteering opportunities in Rangeview](#)

 [Jump to the Rangeview special projects plan for 2023](#)



2023 GREENHOUSE GROWING PLAN OVERVIEW



This year we're going to take full advantage of our heated greenhouse, starting with sowing crops in January of 2023 and continuously sowing successional generations of crops so that we've always got something to grow and harvest from in the greenhouse. We're also going to add some growing systems like supplemental lighting and automatic irrigation to increase our production efficiency. Aside from growing systems and operations we're going to utilize the heated greenhouse for community events, programs, and workshops during the cooler months.

GREENHOUSE GROWING PLAN

RANGEVIEW HOMEOWNERS ASSOCIATION

January
through
March

- Install lighting
- Sow high-wire and hanging basket crops
- Introduce beneficial insects
- Microgreen rotation - sowing and harvesting
- Install irrigation system
- Transplant high-wire and hanging basket crops in greenhouse
- Introduce beneficial insects
- Events, programs, and workshops in the greenhouse

July
through
September

- Harvesting of 2nd generation of high-wire and hanging basket crops
- Sow 3rd generation of cool-season high-wire and hanging basket crops
- Microgreen rotation
- Sow successional generation of hydroponic crops
- Continuing with experimental growing systems, methods, and plant material
- Thorough clean of greenhouse before first frost date
- Removal and composting of plants that will not perennialize in the greenhouse
- Introduce 3rd generation of beneficial insects based on population levels
- Events, programs, and workshops in the greenhouse

April
through
June

- Harvesting of high-wire and hanging basket crops
- Sow early starts to transplant outdoors
- Sow 2nd generation of high-wire and hanging basket crops
- Microgreen rotation
- Sow hydroponic crops
- Introduce hydroponic growing system
- Introduce experimental growing systems, methods, and plant material
- Transplant early starts outdoors after final frost date
- Remove 1st generation of high wire and hanging basket crops and replace with 2nd generation
- Introduce 2nd generation of beneficial insects based on population levels
- Events, programs, and workshop in the greenhouse

October
through
December

- Harvesting 3rd generation of cool season high-wire and hanging basket crops
- Microgreen rotation
- Sow successional generation of hydroponic crops
- Continuing with experimental growing systems, methods, and plant material
- Introduce 4th generation of beneficial insects based on population levels
- Events, programs, and workshops in the greenhouse

GREENHOUSE GROWING PLAN TIMELINE

2023 GREENHOUSE GROWING PLAN TABLE OF CONTENTS



CLICK ON A NUMBER TO BE DIRECTED TO MORE
INFORMATION ABOUT THIS GREENHOUSE FEATURE

1

IRRIGATION

Adding an automated irrigation system

2

LIGHTING

Adding supplemental lighting to extend growing season into the winter and fall

3

PROPAGATION

Starting seeds and vegetative cuttings in the greenhouse to be grown to maturity both indoors and outdoors

4

HIGH WIRE CROPS

Growing Cucumbers, Eggplant, Melon, Peppers, and Tomatoes on high-wire trellis system

5

HANGING BASKETS

Growing flowering plants, herbs, and leafy greens

6

MICROGREENS

Microgreen crop rotation for a continued harvest of fresh greens throughout the growing season

7

HYDROPONIC SYSTEMS

Growing herbs, greens, and vegetables in a closed-loop, automated, hydroponic system

8

IPM

Introducing Integrated Pest Management to prevent and reduce pest populations in the greenhouse

9

EXPERIMENT

Experimenting with novel and innovative growing systems and trialing new species and varieties in the greenhouse

10

EVENTS

Programs, events, and workshops in the greenhouse that spark imagination, provide knowledge, and create lasting community connections

RANGEVIEW HOMEOWNERS ASSOCIATION



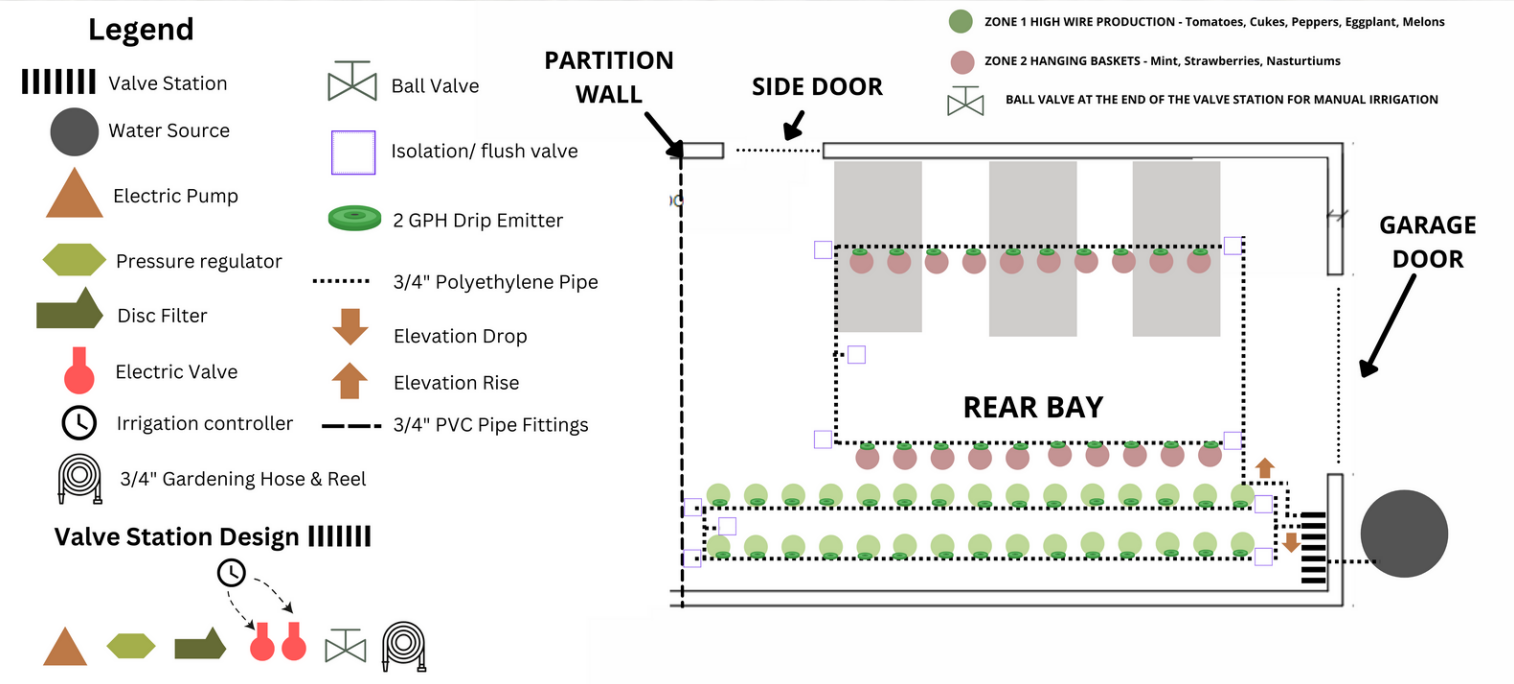
CLICK HERE TO SEE THE GREENHOUSE GROWING PLAN
TIMELINE

1

IRRIGATION

This year we want to install an automated drip irrigation system that will allow us to spend less time manually watering each plant. This time can then be dedicated to other tasks including sowing and harvesting, pruning, integrated pest management, and demonstrations. Automated irrigation systems are relatively inexpensive and go a long way in reducing overall labour requirements and costs. This system will water our high wire and hanging basket crops automatically on a daily basis. Drip irrigation reduces water waste and can improve the overall health of plants by lessening drought stress.

IRRIGATION SYSTEM DESIGN





2 LIGHTING

This year we want to add supplemental lighting over the growing benches in the greenhouse to speed up germination and overall growth of our crops. Supplemental lighting will result in healthier and stronger seedlings that we can transplant and grow to maturity in the greenhouse or in the outdoor garden beds.



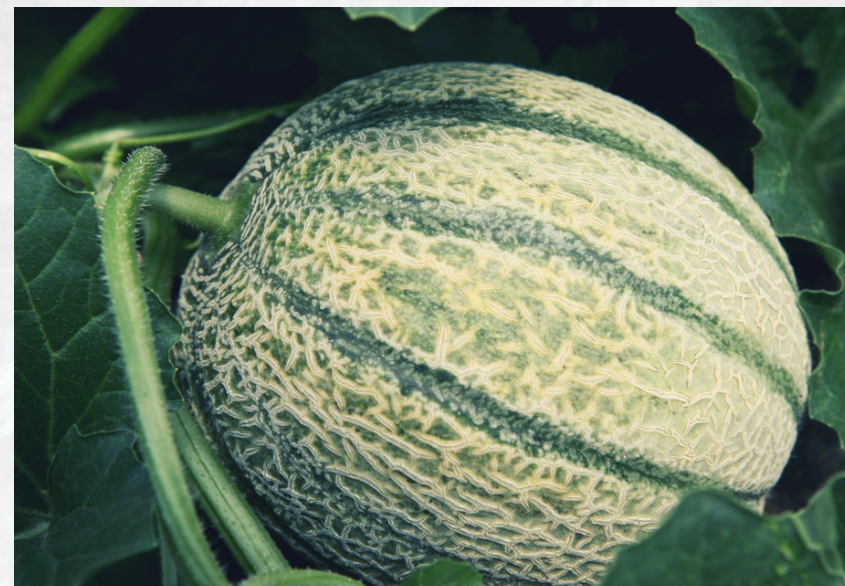
3 PROPAGATION

This year we're going to be starting a large variety of crops from seed in the greenhouse. Starting from seed allows us to try a larger range of varieties due to availability. It also allows us to save on costs as seeds are inexpensive compared to seedlings. Another benefit to starting plants from seed is the reward of growing a plant from scratch to full maturity and harvesting it.

The seed starts , also called propagules will be grown to maturity in the greenhouse and in the outdoor raised and in ground beds.



4 HIGH WIRE CROPS



This year we're going to grow tried and true crops that perform well under the growing conditions in the greenhouse. To effectively utilize space in the greenhouse we'll be growing our vining crops with a method called high-wire production. This is where vining crops are trained to climb up a high-wire trellis that's attached to 10' - 15' high channels inside the greenhouse.



2023 GREENHOUSE GROWING PLAN DETAILS

In 2023 we're going to have hanging baskets growing along the stringers in the rear and front bay of the greenhouse. Within each basket we'll be growing a variety of edible flowering plants like strawberries and nasturtiums, herbs like basil, cilantro, and mint, and leafy greens like lettuce and spinach. These hanging basket crops will be grown in the greenhouse during the spring, throughout the summer, and into the fall.

5 HANGING BASKETS



2023 GREENHOUSE GROWING PLAN DETAILS



6 MICROGREENS

This year we're going to aim our focus on having a continuous crop rotation of microgreens that we will sow, cultivate, and harvest on a regular basis. Since microgreens are relatively easy to grow, and have a very short time frame between sowing and harvesting, they're the perfect crop for beginners, and will be a staple in the greenhouse.





7 HYDROPONIC SYSTEMS

In 2023 we want to experiment growing with semi-automated hydroponic units to showcase innovation in the production of greenhouse crops. These systems will create learning opportunities while also providing plenty herbs, leafy greens, and other crops that grow well in hydroponic systems.



8 INTEGRATED PEST MANAGEMENT



We're also going to focus on introducing an integrated pest management model into the greenhouse. This means that we'll spend more time sampling plant material, monitoring for pests, and implementing preventive measures like introducing beneficial insects. We'll take the time to identify which pests we're likely to encounter and introduce a plan that will allow us to reduce the risk of damage to our crops in ethical and environmentally friendly ways.





9 EXPERIMENTATION

The beauty of growing within a greenhouse is that we have control over the conditions within. Some plants can be very particular about how much heat, light, humidity, and wind they're exposed to. For example, banana and fig trees have a long growing season and require lots of humidity and heat. We can try growing plants like these within the greenhouse because the growing conditions allow for it.



2023 GREENHOUSE GROWING PLAN DETAILS



10 EVENTS

In Rangeview we're fortunate enough to have a heated greenhouse which not only means that we can extend our growing season into the fall, winter, and early spring but it also means that we have a warm and cozy space for community gatherings including events, workshops, and programs.



2023 RAISED & IN-GROUND BEDS GROWING PLAN OVERVIEW

OUTDOOR RAISED & IN-GROUND BEDS



This year we're going to focus on improving the health of the soil in the outdoor raised and in-ground beds by amending the soil with organic matter, covering it with mulch, and introducing cover crops. These methods will increase the health of the soil by feeding microorganisms, keeping the soil cool, and improving porosity and water-holding properties. The automated irrigation system will also help keep our soil and crops healthy. Plants dry out quickly on this hot and breezy site so we're going to do as much as possible to ameliorate that in 2023. We're also going to introduce allotment plots, where residents will be able to grow their own food with the guidance of our Urban Agriculture Educator at their disposal.

January
through
March

- Amending soil with compost, slow release fertilizer, and other organic soil amendments
- Install mulch
- Assigning allotment plots to residents/ groups who are interested in growing

July
through
September

- Sowing seeds for fall harvest
- Harvesting crops from raised and in-ground beds
- Covering frost tender plant material at night w/ frost blankets to extend growing season
- Sowing winter cover crops
- Outdoor events, programs, and workshops (weather dependent)

April
through
June

- Sow cover crops
- Sow early, frost-hardy seeds directly outdoors
- Install irrigation systems
- Sow wind-breaking crops
- Transplant tender starts from greenhouse outdoors after final frost date
- Introduce beneficial insects
- Introduce pollinators (mason and leaf-cutter bees into the pollinator hotel)
- Outdoor events, programs, and workshops (weather dependent)

October
through
December

- Removal of frost-tender plant material
- Final harvest of outdoor plant material
- Outdoor events, programs, and workshops (weather dependent)

OUTDOOR RAISED & IN- GROUND BEDS GROWING TIMELINE

2023 OUTDOOR RAISED AND IN GROUND BEDS GROWING TABLE OF CONTENTS

 CLICK ON A NUMBER TO BE DIRECTED TO MORE INFORMATION ABOUT THIS OUTDOOR FEATURE

1

IRRIGATION

Adding automated drip irrigation systems

2

SOIL AMENDMENTS

amending the soil with organic matter to improve the structure and nutrient profile

3

MULCH

Covering the soil with mulch to reduce evapotranspiration

4

COVER CROPS

Sowing crops that will improve the health of the soil

5

POLLINATORS

Introducing pollinators to the pollinator hotel

6

IPM

Introducing Integrated Pest Management to prevent and reduce pest populations

7

ALOTTMENT PLOTS

Certain raised beds will be available to residents to cultivate and care for on their own

8

EVENTS

Outdoor programs, events, and workshops that spark imagination, provide knowledge, and create lasting community connections

1

IRRIGATION

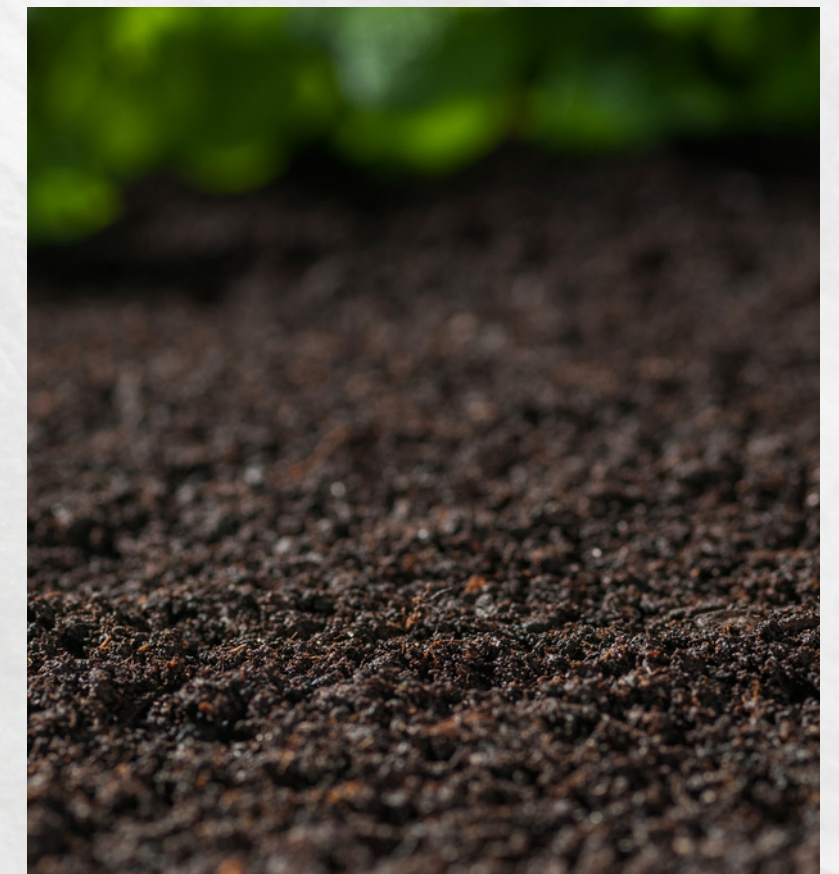
This year we want to install an automated drip irrigation system that will allow us to spend less time manually watering each plant. This time can then be dedicated to other tasks including sowing and harvesting, pruning, integrated pest management, and demonstrations. Automated irrigation systems are relatively inexpensive and go a long way in reducing overall labour requirements and costs. This solar-powered drip irrigation system will water our raised and in-ground beds automatically on a daily basis. Drip irrigation reduces water waste and can improve the overall health of plants by lessening drought stress.

IRRIGATION SYSTEM DESIGN



2 & 3 SOIL AMENDEMENTS & MULCH

In the early spring we'll be amending our soil with compost, bone meal, slow-release fertilizer, and we'll be covering it with a nice thick layer of mulch. All of these components will contribute to the structure, health, and water holding capacity of the soil in the raised and in ground beds. By building a healthy soil profile we can increase the health and vigor of our plants, creating a garden that's less susceptible to adverse conditions like damage from drought, excessive heat, and pests.



4 COVER CROPS

What are cover crops and how do they work?

Cover crops are sown in between rows of crops and between growing seasons to improve the overall health of the soil. Cover crops aren't grown to harvest but are instead grown simply because they provide a multitude of benefits. Cover crops reduce soil erosion from wind and rain, they keep the soil from overheating, they shade out unwanted weeds from growing, they add organic biomass to the soil which feeds microorganisms in the soil, and they improve water absorption and water holding capacity of the soil.

We'll be sowing cover crops in our raised and in-ground garden beds to reap the benefits that they offer. Some examples of cover crops that we'll be growing are barley, alfalfa, rye, clover, and wheat.



5 POLLINATORS



Pollinators provide an essential ecosystem services that we benefit from greatly.

If it weren't for pollinators we wouldn't have crops like squash, apples, blueberries, and watermelon to name a few.

This spring we're going to introduce mason and leaf-cutter bees into our pollinator hotel in Rangeview. We'll receive bee larva from a bee supplier and then we'll place them in the pollinator hotel to hatch, grow, eat, reproduce, and most importantly pollinate our crops.



6 IPM



in 2023 we're going to focus on introducing an integrated pest management model in the community garden. This means that we'll spend more time sampling plant material, monitoring for pests, and implementing preventive measures like introducing beneficial insects. We'll take the time to identify which pests we're likely to encounter and introduce a plan that will allow us to reduce the risk of damage to our crops in ethical and environmentally friendly ways.



2023 OUTDOOR RAISED & IN-GROUND GROWING PLAN DETAILS



7 ALLOTMENT PLOTS

This year we want to give residents the opportunity to grow in their own garden plot within the Rangeview community garden. Residents who are interested in tending to a garden will be allotted a plot where they they have the freedom to sow, transplant, maintain, and harvest either individually or through RHOA organized gardening groups. The RHOA and urban agriculture educator will provide materials, supplies, and guidance to residents who wish to grow in the allotment plots.



8 EVENTS



This year we want to get everyone together in the community garden on a regular basis. We'll focus on outdoors events, workshops, and programs that are engaging, educational, and fun.

There's nothing better than gathering with your neighbours on a beautiful day in the summer and celebrating community connection, enjoying fresh grown food, learning something new, and developing new skills.





ADDITIONAL ITEMS

The next couple of pages in this presentation cover the following topics in more detail:

Volunteering Opportunities in Rangeview

Forming an RHOA Organized Garden Committee

Special Projects in Rangeview for the 2023 Growing Season



2023 GROWING SEASON PLAN - VOLUNTEERS



VOLUNTEERS

This year the RHOA is asking residents to sign up and volunteer their time to maintain crops, set up for events and workshops, and help foster strong community connections in Rangeview with their fellow neighbours. To learn more about volunteering opportunities in Rangeview **click on the image above** to be directed to the Rangeview Homeowners Association's website.

RANGEVIEW HOMEOWNERS ASSOCIATION



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THE PRESENTATION

2023 GARDEN COMMITTEE



GARDEN COMMITTEE

in 2023 we're going to look into the possibility of a RHOA led and community run garden committee. The purpose of forming a garden committee is to provide a supportive and social group for the residents in Rangeview who want to get involved with growing in the community garden allotment plots.



RANGEVIEW HOMEOWNERS ASSOCIATION



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THE PRESENTATION

2023 SPECIAL PROJECTS



SPECIAL PROJECTS

in 2023 we want to do something fun and rewarding on the community garden site. We've got this huge area on the east side of the greenhouse that we want to plant up with corn and sunflowers to create a maze!

If you would like to learn more about this special project, [click here.](#)



Thank You

For taking the time to view this presentation.

Should you have any questions, please reach out
to info@rangeviewhoa.com

