

Crops Overview



What Can be Grown Hydroponically

With CEA, you can grow indoors all year round.

With hydroponics, you can grow **any** crop.

However, it is important to find out what type of hydroponic system is best for that crop and **if the time to harvest and resources required is actually worth it**



What Can be Grown in a Growcer Osiris Farm?



Requirements for crops growing in a Growcer Osiris farm:

- Short growth schedule/quick turnaround time
- Relatively low plant height
- Enjoys having water & nutrient solution available at all times
- Has similar environmental and nutritive preferences to other leafy crops



What It Can Grow



We can group crops into many different categories and for different reasons, but for the purposes of The Growcer, the following crop types are of particular importance because of their suitability for producing them in the controlled environment and limited space of a vertical farm:

- Lettuce
- Leafy greens
- Asian greens
- Herbs

Each of the above crops has its own specific needs, but all have the same basic growing requirements.



What Crops can you Grow in a Growcer Osiris Farm

Commonly
Grown



Lettuce



Leafy Greens



Herbs



Asian Greens

Potential to
Grow



Microgreens



Cultural &
Traditional Crops



Other varieties of
crops / food



Duration from Seed to Harvest - Lettuces & Asian Greens (e.g. romaine, butterhead, pac-choi)



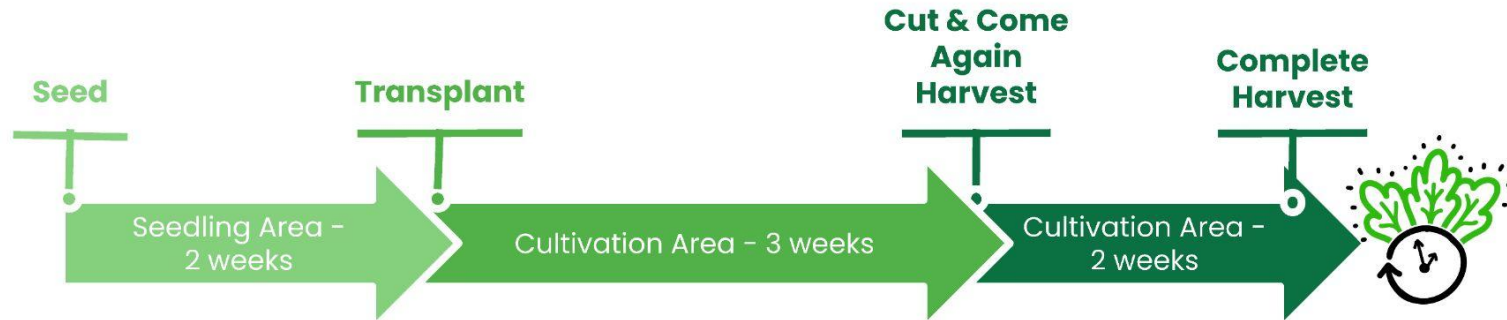
A total of 6 weeks – 2 weeks in the seedling area and 4 weeks in the cultivation area.



Duration from Seed to Harvest - Leafy Greens (e.g. spinach, kale, arugula)



A total of 7 weeks - 2 weeks in the seedling area and 5 weeks in the cultivation area.



Duration from Seed to Harvest - Herbs (e.g. basil, mint, cilantro)



A total of 12 weeks - 3 weeks in the seedling area and 9 weeks in the cultivation area.



Production Schedule



The Growcer team helps you create a production schedule based on the crops that you would like to grow.

With the production schedule, we can ensure that you are harvesting evenly and a little bit of everything most every week!

Week & Date	Start Day (Wednesday)	14-Jun-23	21-Jun-23	28-Jun-23	05-Jul-23	12-Jul-23	19-Jul-23	26-Jul-23	02-Aug-23	
Week #	0	1	2	3	4	5	6	7		
Runway Clean										
Week Seeding	650	650	850	850	300	550	650	750		
Week Transfer	0	550	550	850	850	300	550	550		
Running Total	650	1300	1600	1600	1650	850	1200	1400		
Weekly Seeding by raft	Seeding Area (32)	1	0-Butter Crunch (2)	1-Butter Crunch (2)	2-Butter Crunch (2)	3-Butter Crunch (2)	4-Butter Crunch (2)	5-Butter Crunch (2)	6-Butter Crunch (2)	7-Butter Crunch (2)
		2	0-Monte Carlo (2)	1-Monte Carlo (2)	2-Monte Carlo (3)	3-Monte Carlo (3)	4-Monte Carlo (2)	5-Monte Carlo (2)	6-Monte Carlo (3)	7-Monte Carlo (3)
		3	0-Wild Fire Mix (2)	1-Wild Fire Mix (2)	2-Wild Fire Mix (3)	3-Wild Fire Mix (3)	4-Wild Fire Mix (2)	5-Wild Fire Mix (2)	6-Wild Fire Mix (3)	7-Wild Fire Mix (3)
		4	0-Sunangel Spinach (2)	1-Sunangel Spinach (2)	2-Sunangel Spinach (2)	3-Sunangel Spinach (2)	4-Sunangel Spinach (2)	5-Sunangel Spinach (2)	6-Sunangel Spinach (2)	7-Sunangel Spinach (2)
		5	0-Toscana Kale (1)	1-Toscana Kale (1)	2-Toscana Kale (2)	3-Toscana Kale (1)		5-Toscana Kale (1)	6-Toscana Kale (1)	7-Toscana Kale (2)
		6	0-Angula (2)	1-Angula (2)	2-Angula (3)	3-Angula (2)		5-Angula (2)	6-Angula (2)	7-Angula (3)
		7	0-Genovese Basil (1)	1-Genovese Basil (1)	2-Genovese Basil (1)					
		8								
Weekly Seeding transfer, trim and harvest by raft	Left Side	A	A1		0-Monte Carlo (2)			4-Monte Carlo (2)		
			A2		0-Monte Carlo (2)			4-Monte Carlo (2)		
			A3		0-Butter Crunch (2)			4-Butter Crunch (2)		
			A4		0-Butter Crunch (2)			4-Butter Crunch (2)		
			A5		0-Wild Fire Mix (2)			4-Wild Fire Mix (2)		
			A6		0-Wild Fire Mix (2)			4-Wild Fire Mix (2)		
		B	B1		0-Sunangel Spinach (2)			0-Sunangel Spinach (2)		0-Sunangel Spinach (2)
			B2		0-Sunangel Spinach (2)			0-Sunangel Spinach (2)		0-Sunangel Spinach (2)
			B3		0-Angula (2)			0-Angula (2)		0-Angula (2)
			B4		0-Angula (2)			0-Angula (2)		0-Angula (2)
			B5		0-Toscana Kale (1)			0-Toscana Kale (1)		0-Toscana Kale (1)
			B6			0-Genovese Basil (1)			0-Toscana Kale (1)	
		C	C1						1-Sunangel Spinach (2)	
			C2						1-Sunangel Spinach (2)	
			C3						1-Angula (2)	
			C4						1-Angula (2)	
			C5						1-Toscana Kale (1)	
			C6					1-Genovese Basil (1)		
D	D1				1-Monte Carlo (2)			1-Monte Carlo (2)		
	D2				1-Monte Carlo (2)			1-Monte Carlo (2)		
	D3				1-Butter Crunch (2)			1-Butter Crunch (2)		
	D4				1-Butter Crunch (2)			1-Butter Crunch (2)		
	D5				1-Wild Fire Mix (2)			1-Wild Fire Mix (2)		
	D6				1-Wild Fire Mix (2)			1-Wild Fire Mix (2)		

Smart Farm

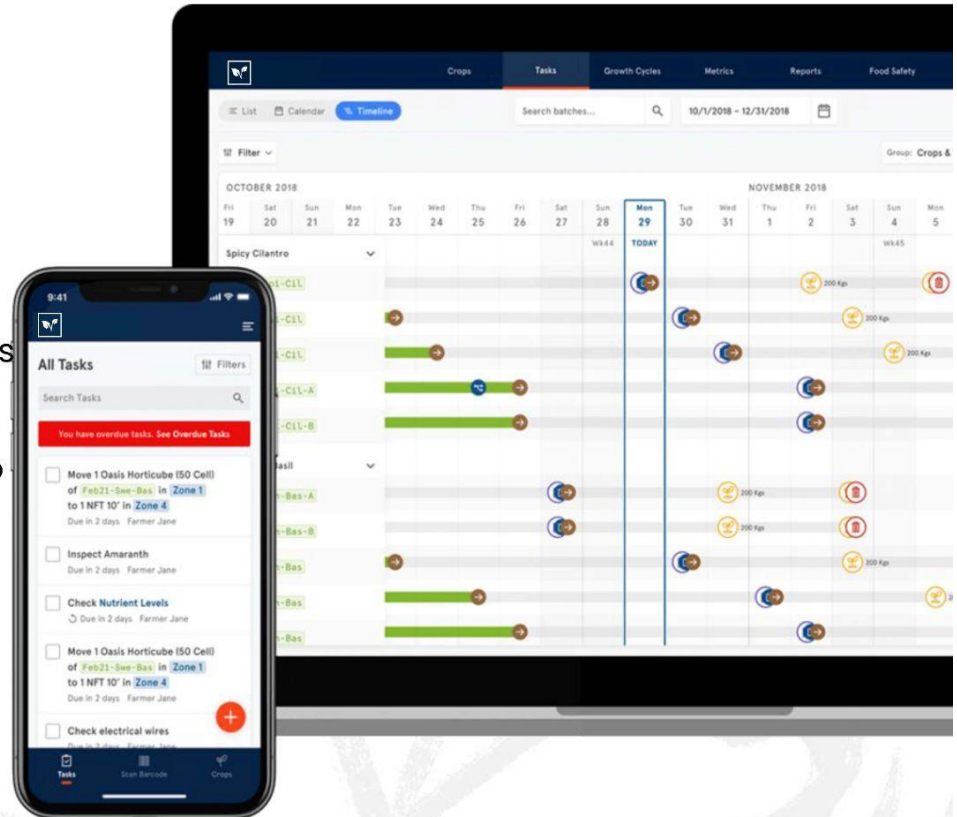


The **Production Management Tool** collects data across the network in real time:

- Weekly yield data
- All tasks completed and reliability statistics
- Inventory of growing supplies

Growcer Scientists regularly analyze data and benchmark each customer to the network

Submit annual financials to their Customer Success Representative in exchange for advice on optimizing profitability



Duration from Seed to Harvest – Lettuces & Asian Greens (e.g. romaine, butterhead, pac-choi)

Growth schedule for win-win choi in our production management tool



Batch Info Activity Documents [Download CSV](#) [Edit Batch Info](#)

Current Quantity **50 cubes** Zone **Seedling Area**

Batch ID **Jan13-Win-Choi** Start Date **January 13, 2023** Planned Harvest Date **February 24, 2023**

Tasks [Add a Task](#)

Hide Completed Tasks

- Started 50 Cubes** [Seedling Area](#) [CROPS](#)
Completed Today Molly Neave Growth/Asian Delight
- Move 1 Raft (36 Plants) →** [CROPS](#)
Due on 27/01/23 Anyone Growth/Asian Delight
- Harvest 1 Raft (36 Plants) from** [Seedling Area](#) [CROPS](#)
Due on 24/02/23 Anyone Growth/Asian Delight

Summary – Crops Overview

- Anything can be grown hydroponically but only certain crops grow well in this type of system.
- There are certain types of crops and certain varieties that Growcer recommends growing
- From seed to final harvest it takes:
 - 6 weeks for lettuces & asian greens
 - 7 weeks for leafy greens
 - 12 weeks for herbs

