

**Leticia Desouza**

## **Capstone Annotated bibliography**

[1] Buechel, Troy. "Proper Watering Techniques in the Greenhouse - Part 1 | PRO-MIX."

*PRO-MIX par Premier Tech Horticulture*, 7 September 2023,

<https://www.pthorticulture.com/en/training-center/proper-watering-techniques-part-1/>.

Accessed 25 January 2024.

In this article, the author goes over the importance of how to water the plants in a greenhouse. Each plant is unique in its own way and might require different types of treatment to survive and thrive. Plants in different weather conditions; summer/spring and winter/fall, require different amounts of water. As in the hotter days, their soil dries up needing more hydration. While in colder climates, their soil is very slow drying. This article will help guide my water system in the 6th floor greenhouse and the booklet created for students who want to pursue the greenhouse further. Knowing the correct amount to water plants is key to creating a thriving greenhouse.

[2] Cat, Deanna. "A Beginner's Guide to Using a Hobby Greenhouse." *Homestead and Chill*, 18

October 2019, <https://homesteadandchill.com/beginners-guide-using-hobby-greenhouse/>.

Accessed 25 January 2024.

Deanna's article about using a hobby greenhouse delivers important information on the best ways to utilize the greenhouse to its fullest potential. From protection to set up, she explains what is best and what you should avoid. Deanna's whole website identity is about gardening and how to make the most of it. She hits every key important point needed to create the best fit environment. This article will be helpful when trying to go back to the basics with the

greenhouse. After cleaning, there are so many things that are in need of change and repair.

Studying this article will serve as a complete guide to ensure nothing is missed or neglected in the greenhouse. Knowing all about greenhouses before putting out events is required in return for people to get hands-on activities.

[3] Cat, Deanna. "How to Prevent Green Algae or White Mold on Seedling Soil." *Homestead and Chill*, 31 March 2022,

<https://homesteadandchill.com/prevent-algae-mold-seedling-soil/>. Accessed 25 January 2024.

This article Deanna demonstrates the harm of green algae or white mold on seedling soil. white mold is often caused by fungus. They thrive in cool, damp conditions and affect plants through small wounds or any type of openings. While green algae grows in areas with excessive moisture and sunlight. More things consist of poor drainage, overwatering, or high humidity levels. These two are especially harmful to plants as they block and compete with the plants for nutrients and sunlight. Putting the plants themselves into harmful conditions encouraging deadly diseases. Knowing about these two areas can help prevent failure for growth in the greenhouse.

[4] Cat, Deanna. "Potting Up Seedlings: What, Why, When & How." *Homestead and Chill*, 14 March 2019, <https://homesteadandchill.com/potting-up-seedlings/>. Accessed 25 January 2024.

It is important to look in the future for a moment to best prepare for situations. This article paints a clear picture of what to do when seedlings come to full fruition. Upgrading their environment for growth is the main idea of this article. When the greenhouse is full of activity from the SLA community and thriving, it is important to ensure that every student's project has a high chance of survival. Deanna explains that potting up provides them the best change to grow

stronger with less stress without getting root bound. Preventing them from drying out more quickly as their roots will be bigger, absorbing more water. And most importantly being able to provide them with a new set of nutrients from more soil in their environment.

[5] Dawe, Jessica. "Greenhouse Cleaning and Maintenance for Beginners." *Eartheasy*, 10

October 2021,

<https://learn.eartheasy.com/articles/greenhouse-cleaning-and-maintenance-for-beginners/>.

Accessed 25 January 2024.

Harm to plants can also come from the cleanliness state of the greenhouse. A simple routine of cleaning will benefit from a bigger and complicated cleaning and maintenance. It is essential to prevent unwanted pests and diseases. At the same time, providing the best environment for plants to survive. In order for crops to best survive in the 6th floor greenhouse, a routine maintenance must be done. Every beginning and middle of the month will be used as a way to maintain the area clean. The 6th floor is a very used space with students which can naturally cause dirt. By washing and disinfecting any infected item, SLA can have a thriving space to grow crops.

[6] Knauss, Nancy. *Penn State Extension Master Gardener Manual*. Penn State University, 1916.

Accessed 25 January 2024.

This book includes all of the basics to the complex things about planting and plants. This book is by Penn State Gardening group/ major. This will help the deep investigation of plants and how to best help them thrive. A lot can be taken from this book as it has everything imaginable about plants. As a primary source written by a professional, this can also be greatly used for the booklet that will be an addition to the new stuff in the greenhouse. The plan is to condense key information in an easy to read way for any student to understand and learn.

[7] Palram. "STARTING FROM SEED IN A GREENHOUSE - Canopia." *Canopia by Palram*, 14 March 2022, <https://canopia.com/tips-and-ideas/starting-from-seed-in-a-greenhouse/>. Accessed 25 January 2024.

Before starting anything about the greenhouse itself, it is important to know the basics of seeds and how to start the planting process. A greenhouse has an environment that is very controlled and easy to manipulate. With learning how to start from seed, the greenhouse will give an advantage to selection and diversification. Along with a jump start on the growing season. Seedling starting pots and trays will be best used during this stage of planting. The arrays catch excess water runoff and the lids from the pots will help to keep moisture, warmth, and will assist in germination. Any soil; fresh, sterile, and bagged seedling starting mix will be the best. Having these in mind can best ensure the survival of plants.

[8] Pino, Benny. "How to set up grow lights instead of- or in addition to- a greenhouse."

*Growing for Market*, 4 March 2021,

<https://growingformarket.com/articles/how-set-up-grow-lights-instead-or-addition-greenhouse>. Accessed 25 January 2024.

Sometimes Lights are necessary to improve a plant's growth in a greenhouse. It can come with a lot of benefits to encourage the plant's growth during not so sunny times. Sometimes the weather becomes unpredictable, not allowing the plants to get enough light to go in the process of photosynthesis. This is where artificial lights come in. Being able to grow plants all year around is all possible. In this article, the author explains how to use the lights. Though they have a lot of benefits, if used incorrectly, can cause the plants harm that can be deadly. Incorporating lights into the 6th floor greenhouse will ensure that all plants will have an environment that will best support them all year around.

[9] Richard. "7 Ways to Control Mice in Your Greenhouse." *Dreamley*, N/A,

<https://www.dreamley.com/7-ways-control-mice-greenhouse/>. Accessed 25 January 2024.

When clearing the greenhouse after being left alone for 5 months, its state was horrible. Almost everything was eaten or broken by rodents making it hard to salvage any old materials to use for the new year. This article goes in depth of the ways to keep rodents out so that the plants in the greenhouse will have the best chance of survival. Taking these tips into practice after the new materials arrive, will allow students from this year who are interested and those who are interested in the future, to preserve old materials to reuse and keep the greenhouse thriving. These articles will be a great addition to the booklet as a way to show students what they can do.

[10] Schaffer, Miriam. "6 Common Greenhouse Pests and How to Manage Them." *Ceres*

*Greenhouse*, 18 May 2021,

<https://ceresgs.com/6-common-greenhouse-pests-and-how-to-manage-them/>. Accessed 25 January 2024.

Pests are another thing that greenhouse owners must keep on the lookout for. If not for rats, little insects and pests can damage the health of a plant. If not for rats, little insects and pests can damage the health of a plant. They can be carriers of bacteria and diseases that can harm the plants causing death. This article explains the different common types of pests that might make their way into a greenhouse. For each one, requires a specific type of work but it all comes into the prep and routines of a greenhouse. Making sure that the greenhouse is clean every couple of years can increase a plant's chance of thriving in its environment.