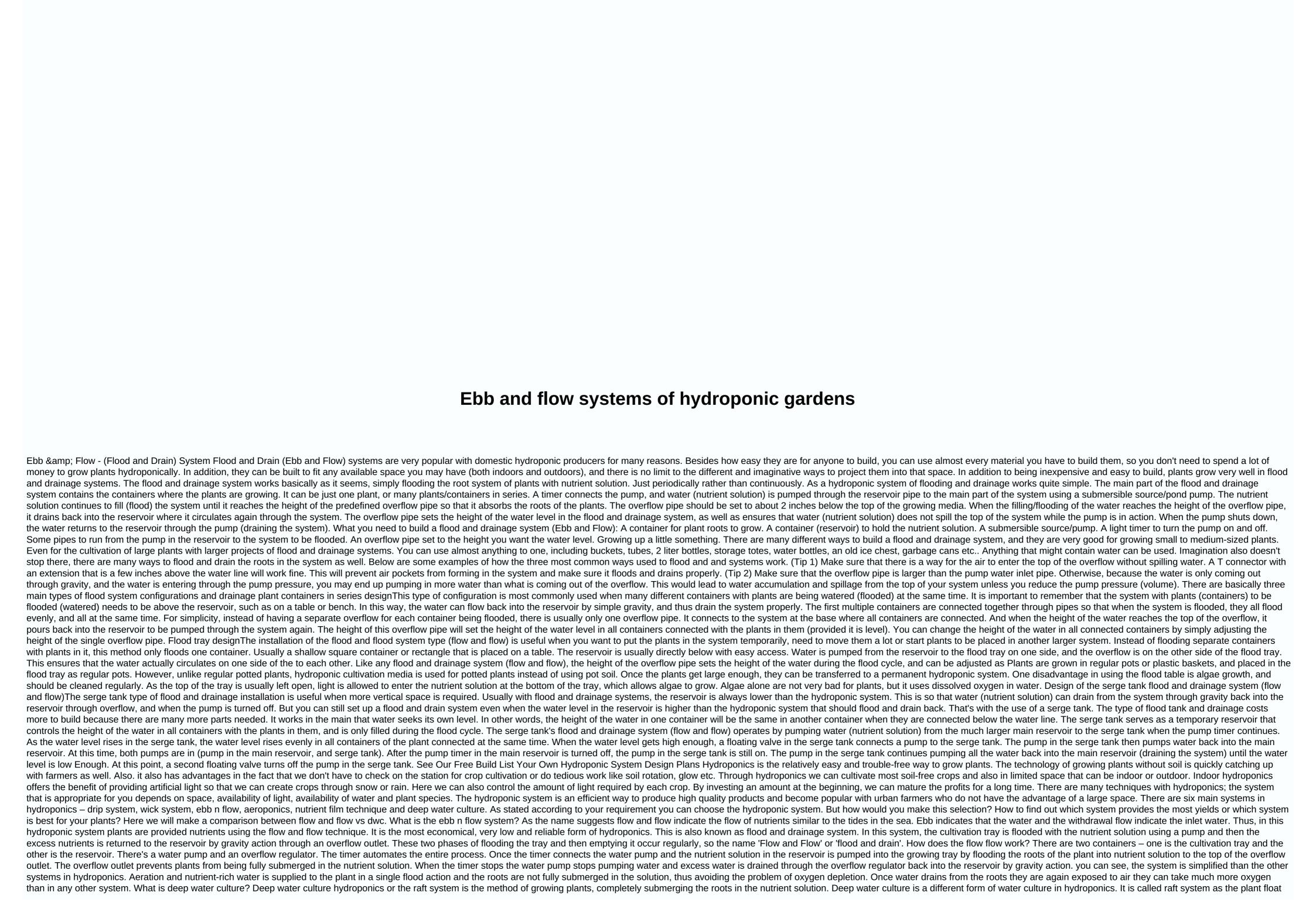
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swells upon water in a raft as a system. In the deepwater system, the depth of the water should be about 8 inches deep, for example, in the case of plants like lettuce the roots will grow easily in small containers with 4 inches of water depth. For larger plants, the depth needs to be 8 inches because its root needs more space to grow. Thus, the depth of the nutrient content depends on the size of the plant you are using. How does deep water culture work? The technology behind the DWC is very simple. Plant roots thrive on oxygen and nutrient intake. In DWC, the roots of the plant are submerged in nutrient solution throughout its useful life and oxygen is supplied through air pumps. Thus, the roots of plants receive oxygen 24 hours a day with the help of air stone and air pump that helps root the intake of more nutrients from the solution allowing it to grow healthy. Advantages EBB n FLOW DWC 1. Easy to build - no expensive equipment required. Containers and water pump are the basic requirement Easy to build – the system requires air pump instead of water pump 2. Cost is much lower, because most equipment are readily available The cost of equipment are lower here too, because only few equipment such as container and air pump 3. Plants are getting a sudden dose of nutrients in the form of flooding and then it is drained Plants are always submerged in nutrient solution 4. The ebb n flow system is easy to useDWC also has the advantage that it is simple to use Disadvantages EBB n FLOWDWC 1 In case of any equipment failure the system works in the use of water pumpThe aerial pump is the main part of the DWC in case of any failure in the air pump the plants will die 2 pH levels may be different after continuous useThe problem with the DWC is also the same, as the pH level can differ by the continuous use of nutrients by the plant 3 The roots of plants can get tangled, because many plants are in a systemA plant in a system submerged roots in nutrient solution all the time, ebb and flow vs dwc - Comparison Even though both systems are hydroponic, there are some big differences to name between the two. Both are useful in plant growth, but depend on the producer's requirement and their conditions. Here we point out some differences between the two systems to give an idea of what to expect grow plants in both systems and using this you can judge which system to go to in you hydroponic configuration. Installation cost In the EBB n flow system there is the requirement of water pump as an important part of the system, which can be expensive. Another advantage is that there is no need for individual tray for plants. Depending on the size of your growing tray and reservoir, you can plant many plants the need for individual trays for plants that can be consumed for costs. No other high-end equipment is needed in this system. The cost of electricity is also lower compared to the DWC, since the water pump operates only at a regular interval and not continuously. At DWC there is no need for water pump, but we need air pump to keep the water oxygenated all the time. Here each plant requires individual crop bucket, as a plant root will be submerged in the solution throughout its growing period. Thus, the cost of multiple air stones and growing buckets is necessary. Here another cost that arises is the cost of electricity to run the air pump continuously during the lifetime of the plants, because the failure of the air pump in the oxygenation of the solution can cause the death of the plant. The ebb n flow of construction – is easy to set up as it requires a reservoir, growing tray and pipes. It can be easily set up in your home alone. It is the best design for a DIY. DWC – compared to the ebb n flow is a bit difficult to build as it requires many buckets and then grow pots that are installed in the buckets from which the plants grow. It can be time consuming to configure the DWC system. Using The Ebb n Flow Space – The use of space depends on how large or small your growth requirement is. If you choose large scale, then it will take up some space. The maximum width of the cultivation tray in this system can be 1200 mm, which gives accessibility on all sides of the tray. The reservoir can be positioned below the growth tray table, further reducing the use of space. The ease of moving the tray is greater because the entire configuration can be moved at once. DWC – space is important for farmers who grow hydroponic plants. DWC can take up space because it uses multiple trays instead of a plant growing tray. Thus, the space occupied by 5 to 6 buckets of cultivation would be larger than that used by a cultivation tray. The ease of moving the system to another location while the plants are growing is also not favorable. Yield of Ebb n flow system is generally good for plant propagation. But it doesn't give so much when compared to a DWC system. Most of the ebb n flow is used to propagate the plants and then they are moved to the main hydroponic system for agricultural production. DWC - in the DWC the yield obtained is higher in relation to the ebb n flow. Here the only benefit benefit that the roots of the plant are always submerged in the nutrient solution so that there is a continuous supply of nutrients being oxygenated at a constant rate. Individual containers, which means that a plant receives the benefits of nutrients for itself. Thus, making it grow more vigorously compared to the flow ebb n. Maintenance Ebb n flow – maintenance is a problem in all hydroponic systems. They require to be constantly monitored because most of them use electrical equipment to provide nutrient solutions. In the flow flow, the whole system relies on the water pump to flood the growing tray and overflow to drain the system. But if there is a fault with the drainage system, the trays may flood and this leads to the plant. Overflowing the nutrient solution due to failure to cut the water pump can also be a problem. DWC – here the dependence of the equipment is lower compared to the flow method ebb n. The failure of the air pump can cause problems as the root of the plant. But the check and maintenance can be done or the individual unit replaced the required id, instead of disturbing the entire cultivation tray. Diseases The flow of Ebb n - plant diseases can be a major problem for farmers who grow large-scale crops. If one plant is infected, it can spread quickly to others. In the ebb n flow we have the advantage that an individual plant can be removed from the tray when necessary and isolated for spraying. But there may be another issue that is root enstillment, because all plants are grown in the same tray the roots can develop and engage with each other, which makes removing a plant a bit tedious. Another risk with the ebb n flow system is the spread of root disease, since an entire tray is being flooded with the same nutrient solution there is a risk of spreading root diseases to the entire plantation in the tray. Cooling of reservoir water is recommended to prevent bacterial and fungal growth. DWC – The DWC has an advantage over the ebb n flow system in this sense, as plants are grown individually in separate cultivation trays or containers, so that the tangle of roots or the spread of root diseases are less compared to the ebb n flow. It is also easy to isolate the plant because they are in separate containers. Conclusion As mentioned there are many hydroponic systems on the market today. We need to choose one that meets our requirements. Here we are just giving an overview between the two hydroponics – ebb n flow and DWC. Each of these systems has its own disadvantages and advantages we cannot clearly say that this is the best system for your requirement. Many factors come to play in choosing a hydroponic system and the factors mentioned above need to be kept in mind when opting for one. It is advisable to your needs and your growth space, environment, and then select the system that accommodates your needs. Need.

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