

A STUDY ON PEOPLE'S ATTITUDE WITH REFERENCE TO TERRACE FARMING IN CHENNAI

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ABSTRACT

Life in city is great! We have access to good school, hospitals, jobs and entertainment, but there are problems too, like pollution and traffic. In our country, trees are cut down to accommodate more buildings and the pollution has made the air toxic. It's not just the air which is toxic, even the food we eat is equally toxic with farmers spraying dangerous fertilizers. In today's urban environment high rise buildings, parking areas, network of roads have acquired major urban land. In such an environment rooftop and terrace of buildings provide a valuable potential source of outdoor space accessible to users of building. Need for terrace gardens have increased with increasing number of high rise buildings which deprive their occupants of any visual contact with nature. Terrace gardens bring back the missing link between man and nature though on a moderate scale. The study of this review is to highlight the agronomic challenges of terrace farming.

Keywords: Terrace Garden, People's Attitude

INTRODUCTION

In today's urban environment high rise buildings, parking areas, network of roads have acquired major urban land. In such an environment rooftop and terrace of buildings provide a valuable potential source of outdoor space accessible to users of building. But this is something you and I already know, If you want a breath of clean, fresh air, you don't have to take a 30-minute ride (causing more pollution) to a park or a beach or spend a ton of money to unwind at a nature resort. Similarly, if you want to eat healthy, fresh, organic fruits and vegetables, you don't have to search long and wide for an organic shop in your locality. Setting up a terrace garden in your home can solve both problems! Terrace gardening may sound like a complicated, time

consuming process that is expensive. But the truth is, you can set up a green space in your home even on a window sill or balcony if you are constrained for space. You don't have to splash a lot of money to set it up - a small monthly budget should work out nicely. And if you're a busy corporate with little or no time to spend on gardening, surely an hour or two a day won't be hard to set aside.

REVIEW OF LITERATURE

FerdousFarhanaHuq,Nidalia Islam(2019) - Dhaka the capital of Bangladesh looks no better than a piece of hardscape from aerial view which justifies the swelling concern of replacing green areas with built up areas to fulfill the demand of briskly growing urban population. Increasing air temperature, changing rainfall pattern and 'unhealthy' air bears the proof of Dhaka city being an urban heat island created by the present development trend. Unrecoverable damage has already been done to the green spaces of this city which has turned this city as the most polluted city in the world. At the edge of the collapse of sustainability of this city new approaches such as 'green roof' can be used to repair its lungs. Although rooftop gardening has been a traditional concept in Bangladesh, in city-wide scale a very few buildings can be seen with green space in roof or balconies.

Akash Patel, RohitYadav and Bhagirathi Singh (2019) - In today's urban environment high rise buildings, parking areas, network of roads have acquired major urban land. In such congested environment rooftop and terrace of buildings provide a valuable potential source of outdoor space accessible to users of building. Need of terrace gardens have increased with increasing number of high rise buildings which deprive their occupants of any visual contact with nature. Terrace gardens bring back the missing link between man and nature though on a moderate scale. The factors which make roof gardens important part of architecture throughout the world is • Full use of terrace, which is normally a discarded area in crowded cities. Maximum meaningful use of minimum available space. • An economical way of balancing green space with uncontrolled growth of cement structure in urban areas.

C P Poornima and Pallavi D Suryawanshi (2020) - A study was conducted to analyse the vegetable consumption pattern and health consciousness of urban households practicing terrace gardening at their homes. The survey was conducted among randomly selected 90 households in Pune city i.e., Pune Municipal Corporation and Pimpri - Chinchwad Municipal Corporation. The study revealed that among the urban wellers doing terrace gardening, everyone showed either moderate or high level of health consciousness and no one showed low level. The amount of vegetables consumed per household per day was taken in to

consideration while collecting details regarding general consumption pattern of vegetables. As per the study, it was found that, 70 per cent were consuming moderate amount of vegetables on daily basis.

RESEARCH METHODOLOGY

The research design used in the study was descriptive in nature as it evaluates the people's attitude towards terrace gardening in chennai city. Sample size of the study was 120 selected based on convenience sampling in Chennai. Questionnaire is developed for collecting primary data from the respondents. The questionnaire consists of several multiple choice questions and Linkert's scale questions.

OBJECTIVE OF THE STUDY

- Study on People's interest towards terrace gardening.
- To examine the common problems faced in terrace gardening.

RESULT ANALYSIS

6.1 Classification of respondents on the based on demographic variables:

| Particulars | Frequency | Percentage |
|---------------|-----------|------------|
| Home maker | 27 | 22% |
| Retired | 6 | 5% |
| Self Employed | 24 | 20% |
| Student | 19 | 16% |
| Working | 44 | 37% |

Educational Qualification:

Source of

data – Primary data

Why and when they started up their garden?

| Question types | SA | A | N | DA | SDA |
|---|-----|-----|-----|-----|-----|
| Friends relatives influenced you to start up a terrace garden | 34% | 27% | 18% | 16% | 5% |
| Influenced through social media | 13% | 43% | 27% | 14% | 3% |
| Got the idea of starting terrace gardening during lockdown | 28% | 43% | 21% | 4% | 3% |
| Does the hybrid varieties and the | 55% | 23% | 14% | 5% | 3% |

| | | | | | |
|--|--|--|--|--|--|
| adulteration of food etc made you choose terrace farming | | | | | |
|--|--|--|--|--|--|

Source of data – Primary data

What made you to start up a terrace garden

Interest towards terrace gardening:

| Question types | SA | A | N | DA | SDA |
|---|-----|-----|-----|----|-----|
| Because veggies harvested from your garden tastes better than those purchased from market | 74% | 11% | 6% | 6% | 3% |
| More fresh,safer and trustable | 49% | 28% | 14% | 8% | 2% |
| Health benefits | 57% | 24% | 12% | 4% | 3% |

Source of data – Primary data

Source of fertilizers

| OPTIONS | SA | A | N | DA | SDA |
|---|-----|-----|-----|----|-----|
| To harvest safe,pesticide –free healthy and fresh veggies and fruits. | 70% | 11% | 8% | 9% | 2% |
| It works wonders for your physical health and your mental well-being | 62% | 23% | 12% | 3% | 2% |
| To reduce the overall heat absorption of the building | 28% | 52% | 13% | 4% | 3% |

Source of data – Primary data

What made you to start up a terrace garden?

| OPTIONS | FREQUENCY | % |
|---------------------------|-----------|-----|
| Make your own fertilizers | 43 | 36% |
| Store | 77 | 64% |

| Question types | SA | A | N | DA | SDA |
|---|-----|-----|-----|----|-----|
| Because beggies harvested from your garden tastes better than those purchased from market | 74% | 11% | 6% | 6% | 3% |
| More fresh,safer and trustable | 49% | 28% | 14% | 8% | 2% |
| Health benefits | 57% | 24% | 12% | 4% | 3% |

Source of data – Primary data

It is inferred from the above table that 37% of respondents are working, 34% of respondents strongly agree that they have started because friends relatives influenced them to start up a terrace garden,49% of respondents have strongly agreed that they are more fresh,safer and trustable, 62% of respondents have strongly agreedbecause it works wonders for your physical health and your mental well-being, 64% of respondent get their fertilizers from store, .57% of respondents have strongly agreedthey have started it because of health benefits.

6.2 CORRELATION

Table 6.2.1 Descriptive Statistics of Occupation and Friends or relatives influenced you to start up a terrace garden.

| Descriptive Statistics | | | |
|--|------|----------------|-----|
| | Mean | Std. Deviation | N |
| Occupation | 3.39 | 1.563 | 120 |
| Friends or relatives influenced you to start up a terrace garden | 2.75 | 1.311 | 120 |

Table 6.2.1 Correlation of Occupation and Friends or relatives influenced you to start up a terrace garden.

| Correlations | | | |
|--|---------------------|------------|--|
| | | Occupation | Why and When did you start up your terrace garden? [Friends or relatives influenced you to start up a terrace garden] |
| Occupation | Pearson Correlation | 1 | .179* |
| | Sig. (2-tailed) | | 0.005 |
| | N | 120 | 120 |
| Friends or relatives influenced you to start up a terrace garden | Pearson Correlation | .179* | 1 |
| | Sig. (2-tailed) | 0.005 | |
| | N | 120 | 120 |
| *. Correlation is significant at the 0.05 level (2-tailed). | | | |

The p-value is 0.005 which is lesser than the alpha value (0.05), hence alternate hypothesis(H1) is accepted. Therefore, there is a significant difference between occupation and friends or relatives influenced you to start up a terrace garden.

Table 6.2.3 Showing Descriptive Statistics of what made you to start up a terrace garden? [More fresher, safer and trustable] and your interest towards terrace gardening? [It works wonders for your physical health and your mental well-being]

| Descriptive Statistics | | | |
|--|------|----------------|-----|
| | Mean | Std. Deviation | N |
| What made you to start up a terrace garden? [More fresher, safer and trustable] | 2.90 | 1.318 | 120 |
| Your interest towards terrace gardening? [It works wonders for your physical health and your mental well-being] | 2.26 | 1.399 | 120 |

Table 6.2.4 Showing Correlation of what made you to start up a terrace garden? [More fresher, safer and trustable] and your interest towards terrace gardening? [It works wonders for your physical health and your mental well-being]

| Correlations | | | |
|--|---------------------|---|--|
| | | What made you to start up a terrace garden? [More fresher, safer and trustable] | Your interest towards terrace gardening? [It works wonders for your physical health and your mental well-being] |
| What made you to start up a terrace garden? [More fresher, safer and trustable] | Pearson Correlation | 1 | .192* |
| | Sig. (2-tailed) | | 0.036 |
| | N | 120 | 120 |
| Your interest towards terrace gardening? [It works wonders for your physical health and your mental well-being] | Pearson Correlation | .192* | 1 |
| | Sig. (2-tailed) | 0.036 | |
| | N | 120 | 120 |
| *. Correlation is significant at the 0.05 level (2-tailed). | | | |

The p-value is 0.036 which is lesser than the alpha value(0.05), hence alternate hypothesis (H1) is accepted. Therefore, there is a significant difference between what made you to start up a terrace garden? [More fresher, safer and trustable] and your interest towards terrace gardening? [It works wonders for your physical health and your mental well-being].

Table 6.2.5: Showing Discriptive Statistics of where do you get your organic fertilizers and what made you to start up a terrace garden [Health benefits]

| Descriptive Statistics | | | |
|---|------|----------------|-----|
| | Mean | Std. Deviation | N |
| Where do you get your organic fertilizers | 1.64 | 0.482 | 120 |
| What made you to start up a terrace garden? [Health benefits] | 3.11 | 1.308 | 120 |

Table 6.2.6 Showing Correlation of where do you get your organic fertilizers and what made you to start up a terrace garden [Health benefits]

| Correlations | | | |
|---|---------------------|---|---|
| | | Where do you get your organic fertilizers | What made you to start up a terrace garden? [Health benefits] |
| Where do you get your organic fertilizers | Pearson Correlation | 1 | .222* |
| | Sig. (2-tailed) | | 0.015 |
| | N | 120 | 120 |
| What made you to start up a terrace garden? [Health benefits] | Pearson Correlation | .222* | 1 |
| | Sig. (2-tailed) | 0.015 | |
| | N | 120 | 120 |

*. Correlation is significant at the 0.05 level (2-tailed).

The p-value is 0.015 which is lesser than the alpha value (0.05), hence alternate hypothesis (H1) is accepted. Therefore, there is a significant difference between where do you get your organic fertilizers and what made you to start up a terrace garden? [Health benefits].

FINDINGS

- It is inferred from the above table that 37% of respondents are working, 34% of respondents strongly agree that they have started because friends relatives influenced them to start up a terrace garden, 49% of respondents have strongly agreed that they are more fresh, safer and trustable, 62% of respondents have strongly agreed because it works wonders for your physical health and your mental well-being, 64% of respondent get their fertilizers from store, .57% of respondents have strongly agreed they have started it because of health benefits.
- There is a significant difference between occupation and friends or relatives influenced you to start up a terrace garden.

- There is a significant difference between what made you to start up a terrace garden? [More fresher, safer and trustable] and your interest towards terrace gardening? [It works wonders for your physical health and your mental well-being].
- There is a significant difference between where do you get your organic fertilizers and what made you to start up a terrace garden? [Health benefits].

CONCLUSION

There is a great impact towards terrace garden nowadays. People's attitude towards a rooftop garden has changed. People tend to change because in today's world there are more and more of hybrids varieties coming up, they believe rooftop garden helps them in maintaining and improving the overall health. It's a great hobby for many, the suggestions listed above will help them to maintain a good and healthy garden and to get rid of the major problems caused in terrace garden. As the world is heading towards the depletion of natural resources and the loss of forest/garden area due to urbanization, there is a dire need of terrace gardens. Due to the population explosion with a house for every citizen in the country, all the open areas are eaten away by concrete buildings. This has created the ecological imbalance, which can cause tremendous harm to our future generations. When we cannot avoid utilizing open spaces on the ground for the construction of buildings and other utilities, then at least the open spaces available above these buildings can be utilized for plantations and gardens to minimize the ecological imbalance, if not eliminate it altogether. There are many benefits of these terrace gardens, such as waste recycling, ecological benefits, energy conservation, water conservation, decorative enhancement of buildings, occupant's health benefits and attracting birds and insects.

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