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GRT Golden Research Thoughts



"ANALYSIS OF RAINFALL"

Bhandwalkar Tushar Rajendra M.S. Kakade College Someshwarnagar, Tal. Baramati, Dist. Pune.

ABSTRACT

griculture is an important sector of Indian economy as it contributes about 17% to the total GDP and provides employment to over 60% of the population. Therefore, agriculture plays an essential role in the process of economic development of less developed countries like India. Besides providing food to nation, agriculture releases labour, provides saving, contributes to market of industrial goods and earns foreign exchange. Agricultural development is an integral part of overall economic development. In India, agriculture was the main source of national income and occupation. Agriculture and allied



activities contributed nearly 50 percent to India's national income. Around 60 percent of total working population was engaged in agriculture. These confirm that Indian economy was a backward and agricultural based economy at the time of Independence.

KEY WORDS: Agriculture, process of economic development, agriculture releases labour, provides saving.

1.INTRODUCTION

Now the agriculture field is very important in India. Therefore, I select the topic related to agriculture. The six stages of the plant life cycle include germination, seedling stage, vegetative growth, pre-flowering stage, flowering and seed stage. The six stages are the procedures, through which a plant develops, mature, reproduce and die. The important step in plant growth is germination. This is prime and basic step. So. I concentrate on the germination. If the germination is healthy, then the plant growth will be better.

In recent years, the use of statistically designed experiments is greatly expanded into many new application areas of agriculture, engineering science and product and process improvement. Design of experiment provide a systematic and scientific approach for assessing extent and nature of influence of one or more controlled input factors on the response variable understudy. In factorial designed, study the effect of two or more effect simultaneously. One of the disadvantages of factorial experiments is that they can get large very quickly with several levels each of several factors. One technique for reducing the size of the factorial to more. manageable levels is fractional replication. Now, as the number of factors is to be increased, then the number of treatments is increased. Due to this the experimental error will be increased and the precision will be decreased. Now, to increase the precision by decreasing the experimental error. In such a situation, the fractional factorial design is used.

Data Table Av.Annual rainfall(mm) Distict Aurangabad-Mumbai-Pune

Months	Aurangabad	Mumbai	Pune
Jan	3.8	1.7	22.5
Feb	2.5	1.5	22.0
Mar	5.0	0.6	14.5
Apr	3.0	,9 .8	20.6
Мау	35.9	30.0	28.5
Jun	140.9	171.4	83.7
Jul	166.0	171.0	184.0
Aug	166.9	139.5	227.0
Sep	175.9	141.7	119.6
Oct	87.3	85.8	16.0
Nov	14.1	21.5	5.6
Dec	12.0	7.4	10.9
Total	813.3	781.9	755.4

Distict Aurangabad

Hypothesis:-H0: μ 1 = μ 2 or H0: μ 1 μ 2

By R-Software

>x=c(3.8,2.5,5.0,3.0,35.9,140.9,166.0,166.9,175.9.87.3,14.1.12.0) >y=c(1.7,1.5,0.6.9.8.30.0,171.4,171.0.139.5,141.7,85.8,21.5,7.4) >t,test(x,y,var.equal=T) >t.test(x,y,var.equal=T)

Two Sample t-test

data: x and y t - 0.088086, df = 22, p-value = 0.9306 alternative hypothesis: true difference in means is not equal to 095 percent confidence interval 58.9896764.22300 sample estimates: mean of x mean of y 67.7750065.15833 Decision-If P-value is greater than level of significance than accept HO. Conclusion-Hence we conclude that the annual rainfall in Aurangabad and Mumbai city is consistent. Distict-Mumbai Hypothesis:-H0: μ 1= μ 2 or H0: μ 1 μ 2 By R-Software >x=c(3.8,2.5,5.0,3.0,35.9,140.9,166.0,166.9,175.9.87.3.14.1.12.0) >y=c(22.5,22.0,14.5,20.6,28.5,83.7,184.7,227.0,119.6,16.0,5.6,10.9) >t.test(x,y,var.equal=T)

"ANALYSIS OF RAINFALL"

Two Sample t-test data: x and y t = 0.15777, df = 22, p-value = 0.876l> = 0 . 0 5 alternative hypothesis: true difference in means is not equal to 0

95 percent confidence interval:

-58.39765 68.01432 sample estimates: mean of x mean of y 67.77500 62.96667 Decision-If P-value is greater than level of significance P-value= 0.8761> = 0 than accept HO at 5% level of significance reject otherwise Conclusion- Hence we conclude that the annual rainfall in Aurangabad and pune city consistent. Distict -Pune Hypothesis:-H0: $\mu = \mu 2$ or H0 $\mu \mu 2$ By R-Software > x=c(1.7,1.5,0.6,9.8.30.0,171.4,171.0.139.5,141.7.85.8.21.5.7.4) > y=c(22.5,22.0,14.5,20.6,28.5,83.7,184.7.227.0.119.6.16.0.5.6.10.9) > t.test(x,y,var.equal=T)

Two Sample t-test data: x and y t = 0.073207, df = 22, p-value = 0.9423

alternative hypothesis: true difference in means is not equal to 0 95 percent confidence interval: -59.89598 64.27931 sample estimates: mean of x mean of y 65.15833 62.96667 Decision- If P-value is greater than level of significance

P-value= 0.9423> = 0. the function of significance reject otherwise Conclusion-Hence we conclude that the annual rainfall in Mumbai and pune city is consistent

SUGGESTIONS

- We can Suggest to farmers from Aurangabad Mumbai &pune district to plan their work of fanning before month of May
- We can Suggest to Farmers from Aurangabad District to plan their work of Farming before Month of June to September.
- We can Suggest to Farmers from Mumbai District to plan their work of Farming before Month of June to September.
- We can Suggest to Farmers from Pune District to plan their work of Farming before Month of July to September

REFERENCES

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- Internet

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