



RAIN & PT SESSIONS

Project 1
SG-DSI-39
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SCOPE



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Defining the issue

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Explore Data

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weather data

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INTRODUCTION



BMT

Army units conduct
Basic Military Training
(BMT)



PT

There is a set number of
Physical Training (PT)
sessions to be
completed



WEATHER

However the session can
be cancelled due to
inclement weather (rain)



PROBLEM STATEMENT

How many PT sessions should an Army unit plan for during BMT in order to complete all sessions?

(Given that PT sessions can be cancelled due to rain)



≡ KEY STATISTICS ≡

1,030

Recruits to undergo
BMT

16

Days of PT sessions
to be completed

9

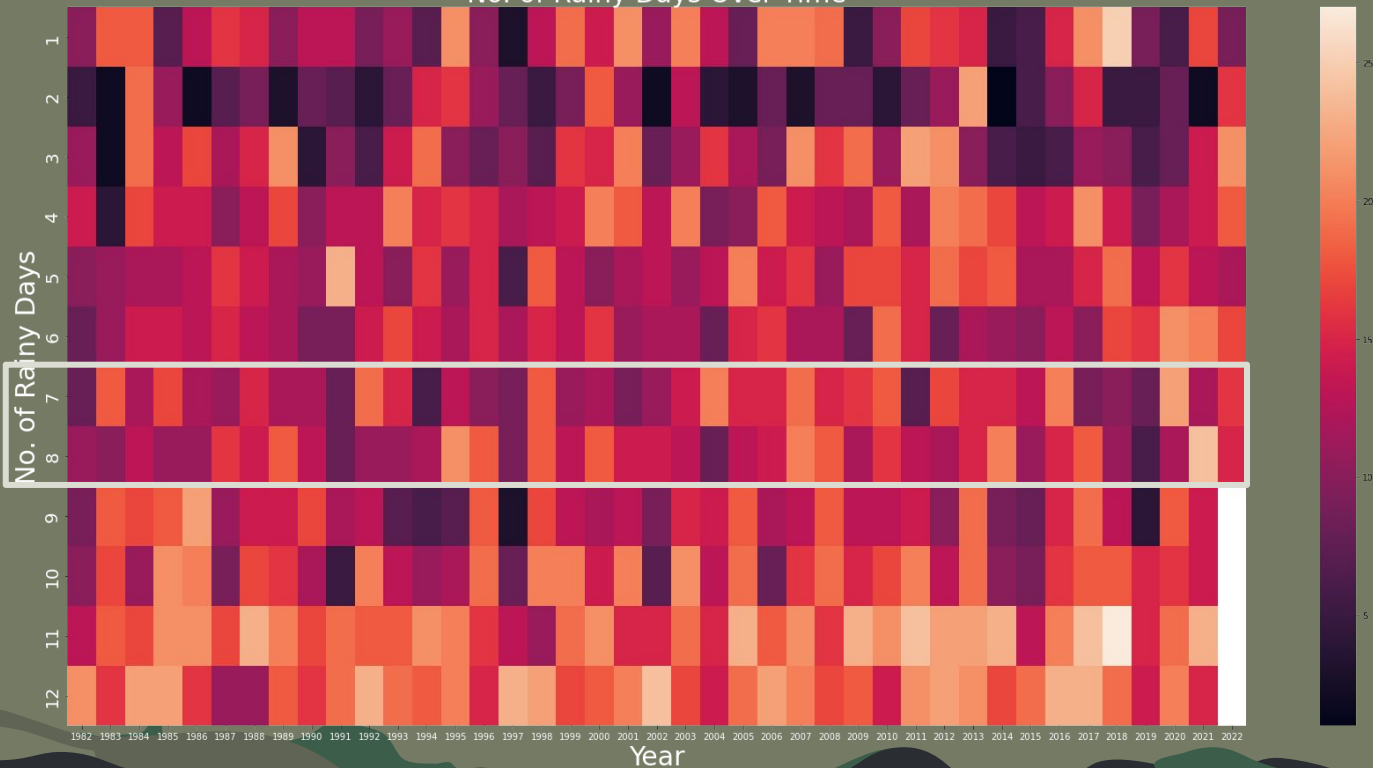
Weeks of BMT

Assumptions

- *BMT is to be conducted in **July-August**.*
- *A day is considered to have 'rained' if the total rainfall for that day is **0.2mm or more**.*

HISTORICAL TRENDS

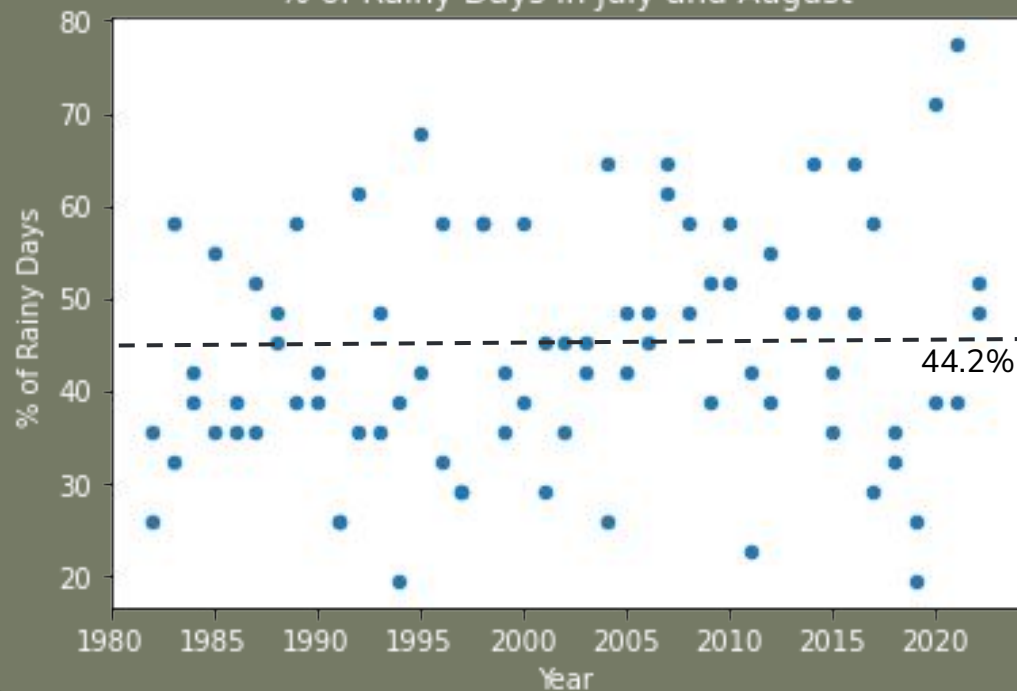
No. of Rainy Days Over Time



July and August are in between the dry and wet seasons.

HISTORICAL TRENDS

% of Rainy Days in July and August



44.2%

Average % of Rainy
Days in July and
August

% of rainy days have been
fluctuating over the years.


$$100 / 44.2 \times 16 =$$

(to get 100%) (44.2% chance of rain) (16 PT sessions)

36

PT sessions to be planned for during BMT



RECOMMENDATIONS



4 days of PT per week

To space out the strenuous activity over the training program.



Alternate Plan

Standby alternatives in training program in case of rain.

LIMITATIONS & WAY AHEAD

Rain

Some PT can have alternatives under shelter.



Temperature

SAF also restricts activities when temperature is $> 35^{\circ}\text{C}$.



Lightning Alert

SAF uses presence of lightning (CAT 1) as an indicator to cease activities.



CAT 1 Data

Though broadcasted, CAT 1 data is not collated or archived.





THANK YOU



Sources

Images: [BMTC Facebook](#)

Datasets: [Meteorological Services Singapore](#)

CREDITS: This presentation template was created by **Slidesgo**, including icons by **Flaticon**, infographics & images by **Freepik** and illustrations by **Stories**



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