

# Spatial Variability of Soil Fertility Distribution in Kye Inn Village Tract, Pyinmana Township, Naypyitaw (2017-2019)

## Objectives

1. To generate the spatial distribution maps by evaluating soil fertility status describing soil physical and chemical properties
2. To provide the important basis to the farmers for proper site-specific fertilizer management

### Research Area



### Photos of Research Activities



Soil Sampling

Interview with farmers



Soil Analysis for 80 soil samples in the laboratory

### Team Members

#### Department of Soil and Water Science

1. Dr. Kyaw Ngwe (Professor and Head)
2. Dr. Swe Swe Mar (Lecturer)
3. Ma Naing Naing Moe (M. Agr. Sc)

### Results

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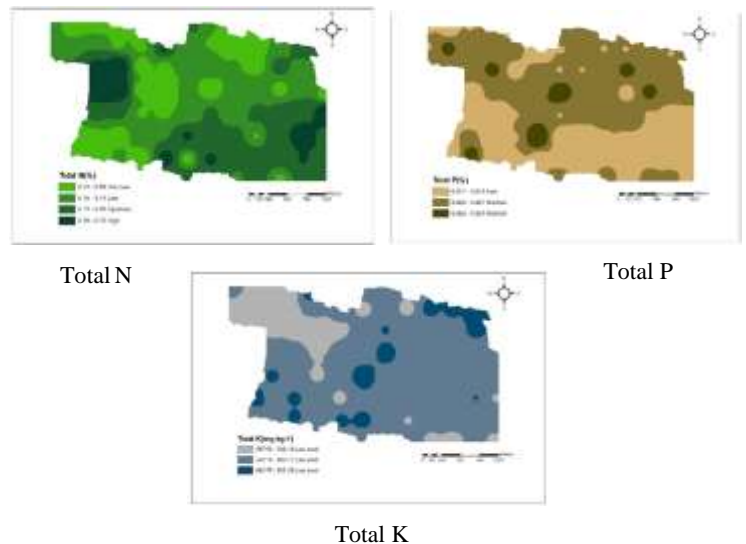
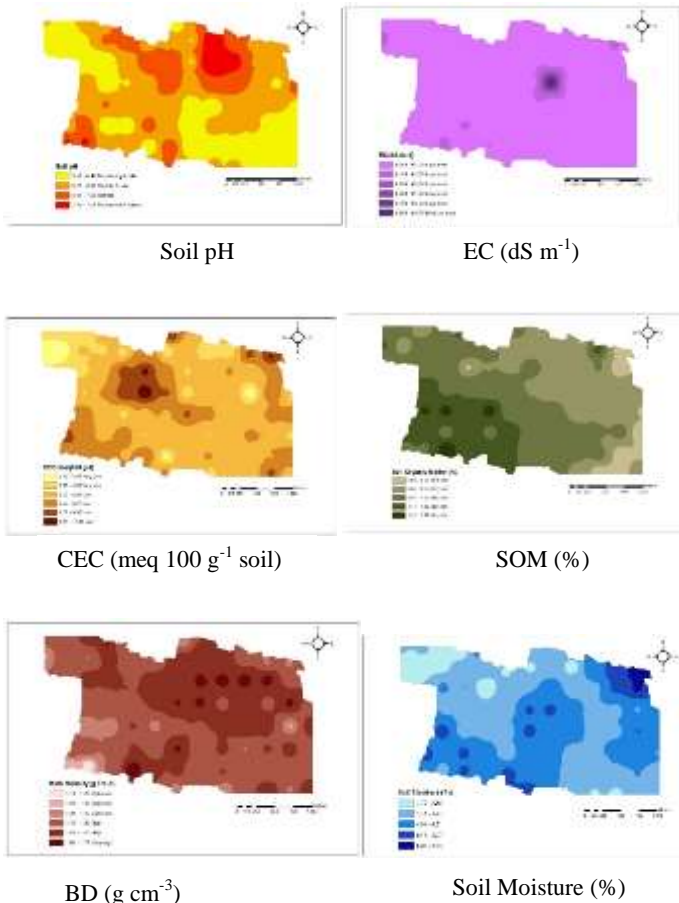


Figure. Spatial Distribution of Soil Parameters

### Conclusion

- The calculated Nutrient Index Value for all nutrients was classified as low class.
- As a result of lower organic matter level of 0.2% to 1.7%, organic matter improvement practices should be adopted.
- Farmers should know what amendments were required to optimize the productivity of the soil by considering the observed nutrient status of their soils.
- The observed various spatial variability of soil properties would provide the valuable information for effective decision making in better crop production of Kye Inn area.

Figure. Spatial Distribution of Soil Parameters