



Soil Laboratory quality control of DALaM

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Brief History

- DALaM's Lab. established in 1976 . Firstly, called Soil analysis center.
- 1999, Belong to NAFRI
- 2012 established DALaM



Analysis ability

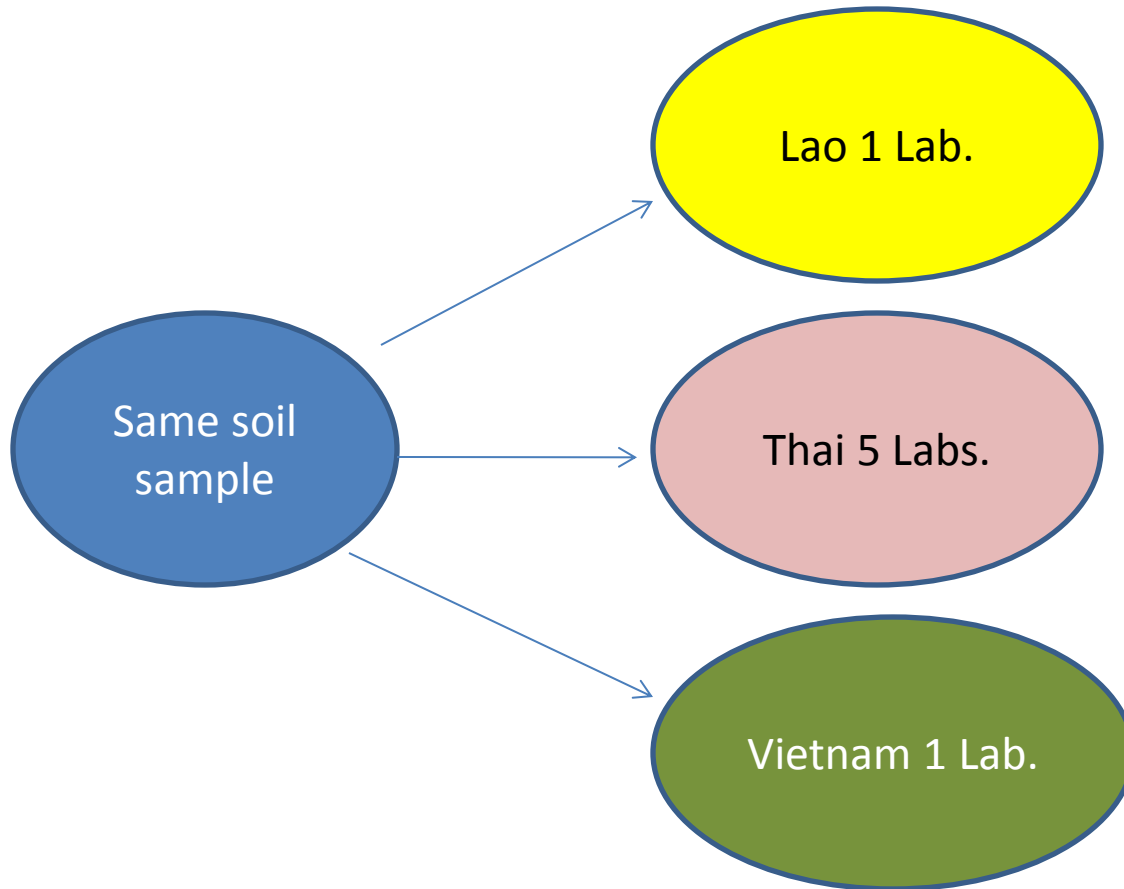
- N, P, K total Kjeldahl
- P available (BrayII)
- K, Ca, Na, Mg exchangeable 1N AM. Acetate pH7
- pH (1:2.5) pH meter.
- EC (1:5) EC meter.
- OM Walkley&Black
- Texture Hydrometer&Pipette
- Al, H, 1NKCl
- Some soil physical properties

bringing the lab to international standards

- Ring test with among Lab:
 - Laos (DALaM)
 - Thailand (LDD + Regions)
 - Vietnam (SFRI).



What is the ring test?

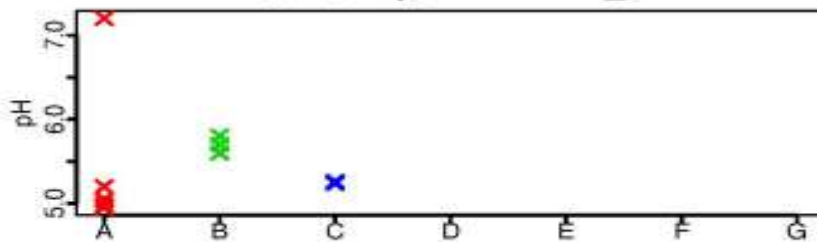


1. SEALNET.
2. ASPAC.

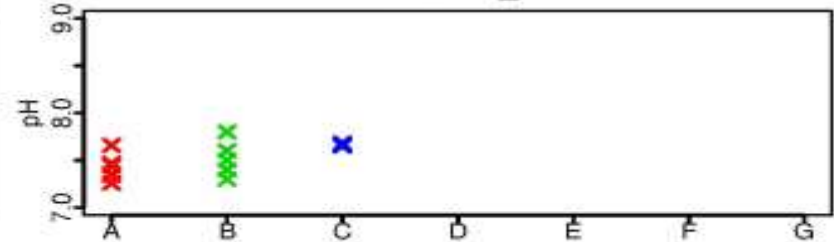
Result of Ring test

pH water (the range for the Y-axis is 2 pH units)

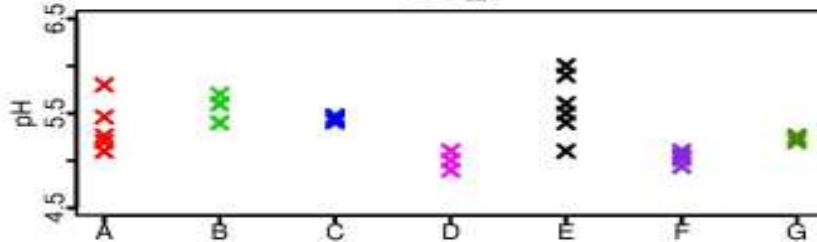
Soil sample = DALAM_1



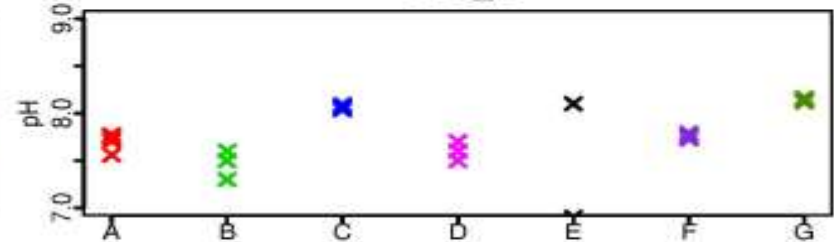
DALAM_2



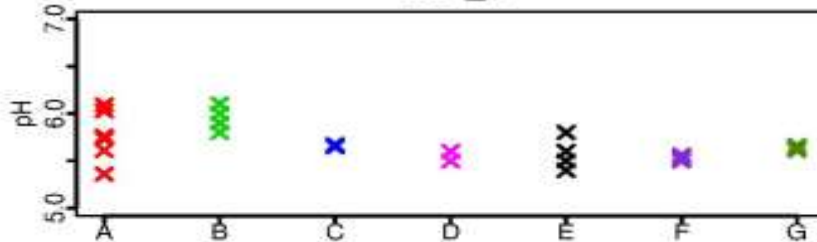
LDD_1



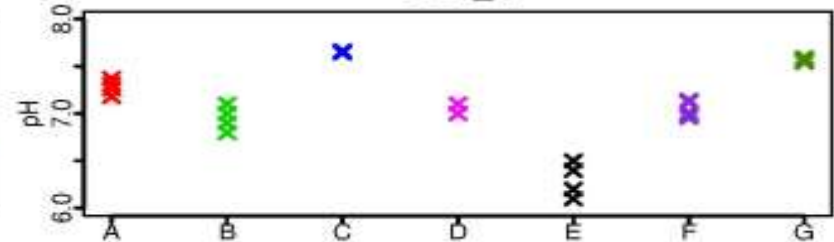
LDD_2

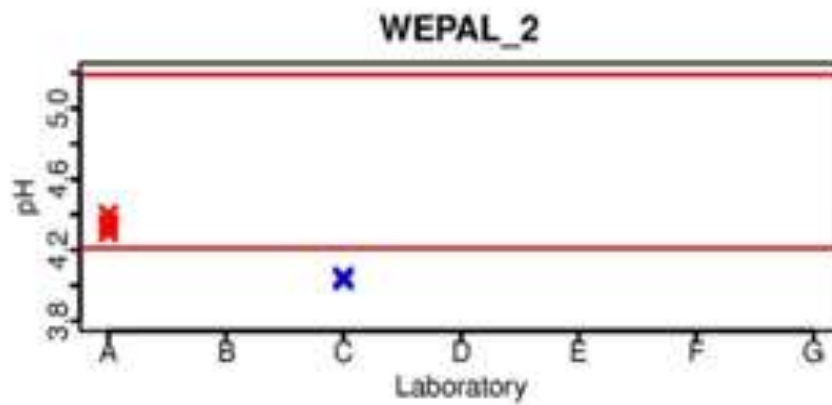
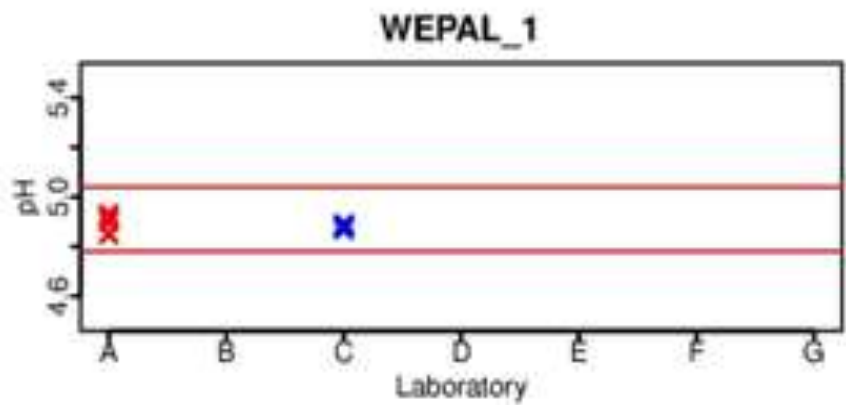
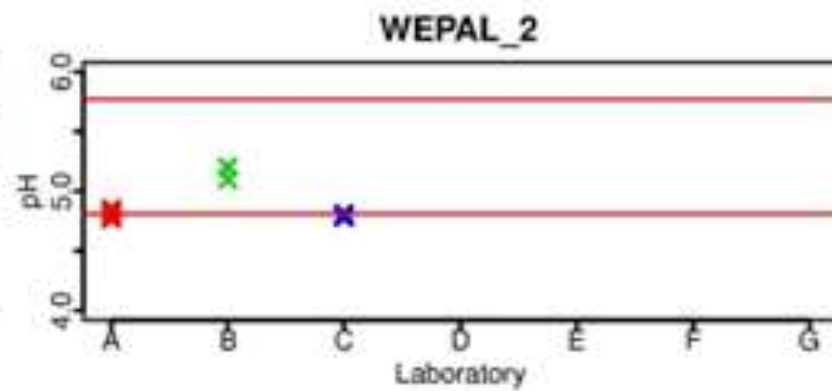
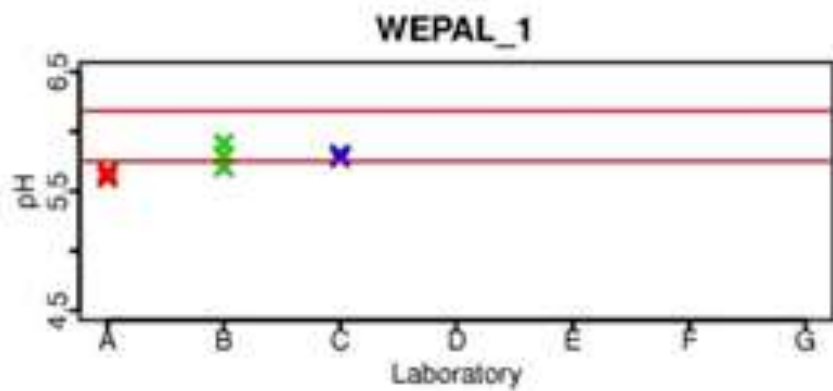


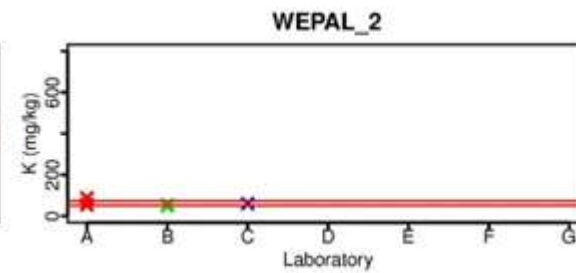
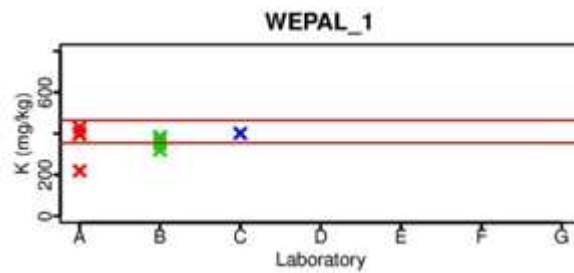
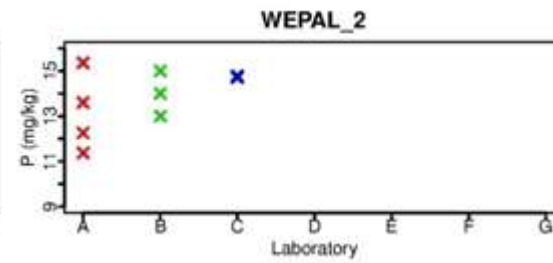
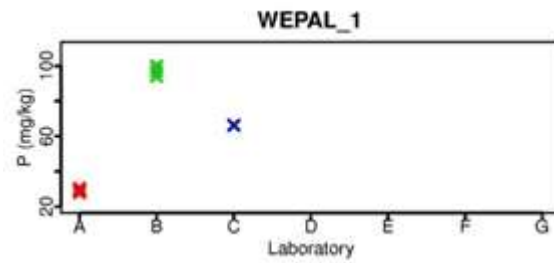
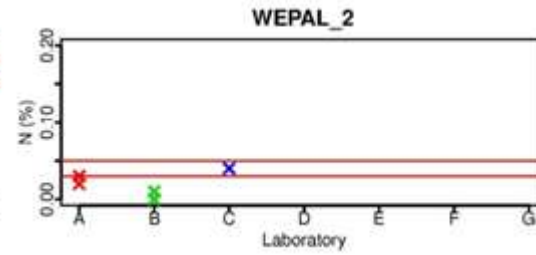
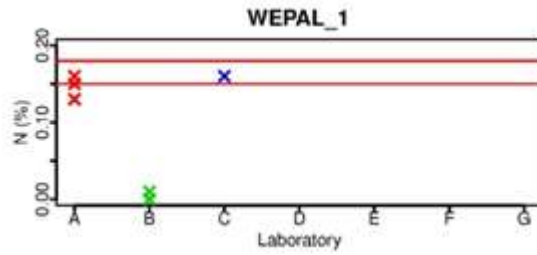
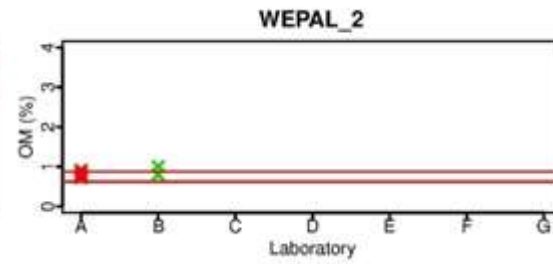
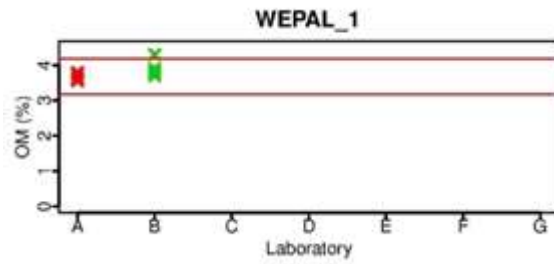
LDD_3



LDD_4







Next training

1. Lab management.
2. Data management.
3. Data interpretation.



Future plan

- Heavy metal/ toxicity element
- Pesticide/insecticide residual
- Bio Lab
- should soon be under the umbrella of
FAO

Conclusion

- Our Lab can be trust and that will improve its relations with customers.



Thank you

