Corn Production under Conventional and Conservation Tillage Practices
Demarcation of plots

Plot size = 8.00 m x 3.75 m
5 treatments x 6 reps = 30 plots in RCBD
**CALCULATION OF LIMING REQUIREMENT (GML) FOR EXPERIMENTAL SOIL AT PUCHONG**

Area of plot = 8.00 m x 3.75 m

= 30.00 m\(^2\)

Soil pH = 4.33

To change the pH of mineral soil from 4.33 to 6.50, we will need to apply ≈ 2 t GML/ha

2 t GML = 10,000 m\(^2\)

X t GML = 30.00 m\(^2\)

X = \((2 \text{ t GML} \times 30.00 \text{ m}^2)/10,000 \text{ m}^2\)

X = 0.006 t GML ≈ 6 kg GML

<table>
<thead>
<tr>
<th>Dimension of Experimental Plot</th>
<th>Area (m(^2))</th>
<th>Amount of GML (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 plot</td>
<td>30.00</td>
<td>6 kg</td>
</tr>
<tr>
<td>30 plots</td>
<td>1205.75</td>
<td>6 kg x 30 plots = 180 kg</td>
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</tbody>
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Planting materials
(F1 Supersweet sweet corn)
Germination stage
Corn seedlings

Before thinning  After thinning
Vegetative growth

20 Days after planting

30 Days after planting
Herbicide application
Reproductive stage (50 DAP)
T3 (Kamila Nugget Surface)
Pest control measures
(Monkey trap & nets)
Grains at maturity (70 DAP)

Cob at maturity (70 DAP)

Grains at maturity (70 DAP)
Conservation tillage for corn production