

# Planting Cowpea protocol

Stephanie Cullum

## Abstract

Protocol to grow different accessions of cowpea seeds within a greenhouse in controlled conditions.

**Citation:** Stephanie Cullum Planting Cowpea protocol. **protocols.io**

dx.doi.org/10.17504/protocols.io.rpnd5me

**Published:** 02 Aug 2018

## Protocol

Collect 48 plastic 4 gallon plant pots for cowpea planting

### Step 1.

The soil mixture is one part LC1 soil (Sun Gro Horticulture Professional growing mix SS#1-F1P RSI) and one part calcined clay (Turface Athletics MVP 32217).

### Step 2.

To make all the soil mixture, make it in smaller portions to allow easier mixing e.g. 10 scoops (each 2 quarts) of alternating clay and soil to a large pot.

### Step 3.

Mix up the dry mixture with a shovel or hands until even distribution

### Step 4.

Add 2 litre of water to the soil and again mix so that all soil has equal moisture

### Step 5.

Fill all the pots with the mixture leaving 3cm of space from the lid of the pot.

### Step 6.

Pat down the soil gentle to give it some firmness (but still allowing movement for seeding)

Each of the 12 cow pea accessions have 4 plant pots with each plant pot containing 2 seeds meaning that each accession has 8 seeds planted.

### Step 7.

The seed placement within the pot should be that the 2 seeds are planted 7 cm apart but should be placed near the centre of the plant pot.

### Step 8.

To plant the seeds, create a hole in the soil that is 2cm deep by using your fingertip.

### Step 9.

Place the seed within the created hole and then cover the seed with soil. Repeat with seeds while labelling each pot with the accession number

Thoroughly water each pot once the seeds are planted

**Step 10.**

Check on the growing plants once a day. If the soil becomes dry then rewater all the pots

**Step 11.**