

The below assumes:

- Calibration measurement is with a water bottle lid (CAP): 8 mL, 540.6 g urea, 8g NPK
- It is assumed maize is planted with 75x30 cm spacing, Soybean 60 x15cm, Groundnut 60 x15cm, Cowpea 60x 15cm, Sorghum 75x30cm.
- It is assumed grain prices per kg (ZMK): 2 maize; 8 Soybean; 8 Groundnut; 8 Cowpeas; 2 Sorghum
- It is assumed 50 kg of fertilizer use costs (ZMK): 350 urea; 400 NPK.
- Application rates are in kg/ha.

Level 1 financial ability.

- For maize, point dress 62 kg/ha urea 6 WAP (1 CAP for 7.3.5 points).
- For Groundnuts, band dress 59 Kg/ha NPK applied at planting (1 CAP for 2 m)
- For Cowpeas, band dress 17 Kg/ha NPK applied at planting (1 CAP for 7m).

Level 2 financial ability.

- For maize, Point dress 75 Kg/ha NPK applied at planting (1 CAP for 6 points); Point dress 76 kg/ha urea 6 WAP (1 CAP for 6.3 points).
- For Soybean, band dress 45 Kg/ha NPK applied at planting (1 CAP for 3 m).
- For Groundnut, band dress 89 Kg/ha NPK applied at planting (1 CAP for 2m)
- For Cowpeas, band dress 37 Kg/ha NPK applied at planting (1 CAP for 4 m)

Level 3 financial ability (maximize profit per acre).

- For maize, Point dress 391 Kg/ha NPK applied at planting (1 CAP for 1 point) and Point dress 88 kg/ha urea 6 WAP (1 CAP for 2.1 points).
- For Soybean, band dress 84 Kg/ha NPK applied at planting (1 CAP for 2m).
- For Groundnuts, band dress 61 Kg/ha NPK applied at planting (1 CAP for 2m)
- For Cowpeas, band dress 48 Kg/ha NPK applied at planting (1 CAP for 3m)