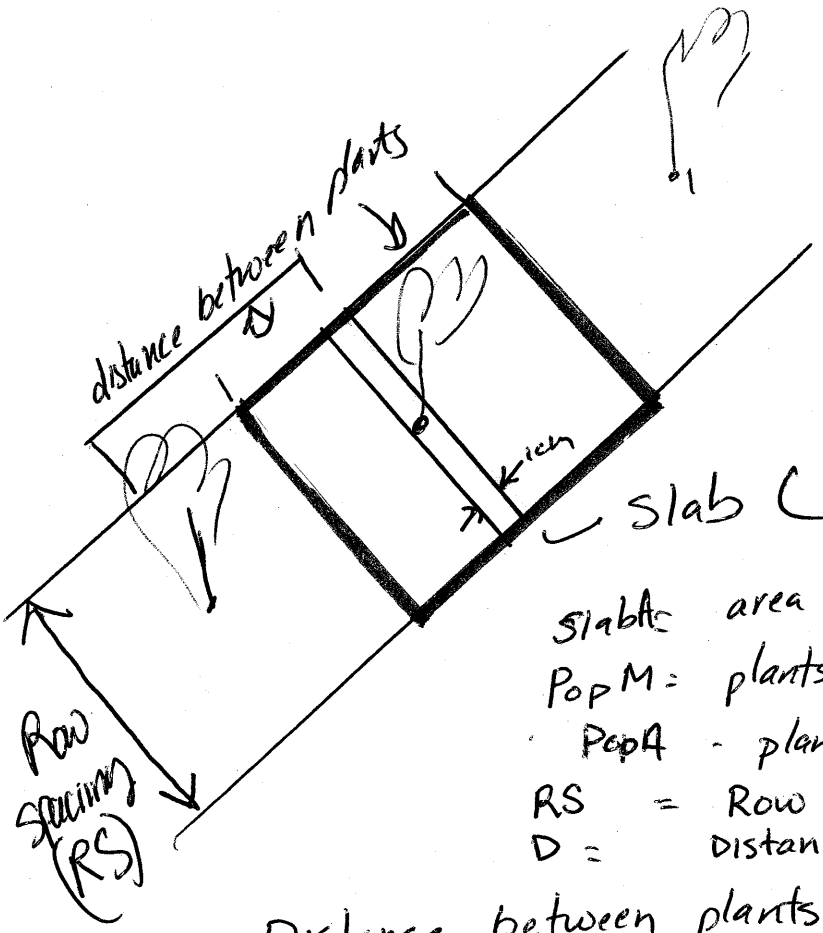

Not: all measurements in meters

slab (s)

Slab = area of slab (m^2)

PopM = plants per meter row — plants/meter

PopA = plant population per m^2 — plants/m^2

RS = Row Spacing (m)

D = Distance between plants

$$\text{Distance between plants} = \frac{1}{\text{PopM}} = D$$

$$\text{Area per plant} = RS \times D = \frac{RS(m)}{\text{PopM}} = \frac{RS(cm)}{\text{PopM} \cdot 100}$$

$$\text{Plants per } m^2 \text{ (PopA)} = \frac{\text{PopM}}{RS} = \frac{1}{\text{Area per plant}}$$

$$\text{Area of Slab} = 1 \times RS$$

Ratio of area of slab to Area per plant

$$\frac{1 \times RS}{\frac{RS}{\text{PopM}}} = \text{PopM}$$

to scale uptake from

1. Plant to slab multiply uptake by RS ÷ RS × PopM
2. multiply again by Fmult if plant is not at center

We want the ratio of the area of the Slab to the area for a plant

the slab is $RowSp * 1\ cm$ since Row Spacing is given in cm

in meters it is

$$\frac{RowSp \times 1\ cm^2}{10{,}000\ cm^2} \cdot M2$$

$$= \frac{RowSpacing}{10{,}000}$$

The area of a plant is $RS \cdot$ Distance between plants

$$= RS \cdot \frac{1}{PopM}$$

If RS is in cm we have

$$\frac{Rs\ 1m/cm}{PopM \cdot 100\ cm}$$

area of plant is $\frac{Rs}{PopM \cdot 100}$

the inverse of this is $\frac{PopM \cdot 100}{RS}$

thus the ratio between area of slab & area per plant is.

$PopM(100/RS) * \frac{Rs}{10{,}000}$ multiply by FORMULT depending on values the plant is