

EXPANDED REPRODUCTION SCHEMES

YEAR 1

$$\begin{aligned} \text{I} & 400c + 100v + 100s = 600 \Rightarrow 400c + 400c + 100v + 100v + 500s \Rightarrow 4400c + 1100v + 500s \\ \text{II} & 1500c + 750v + 750s = 3000 \Rightarrow 1500c + 100c + 750v + 50v + 600s \Rightarrow 1600c + 800v + 600s \end{aligned}$$

$$\boxed{9000}$$

YEAR 2

$$\begin{aligned} \text{I} & 4400c + 1100v + 1100s = 6600 \Rightarrow 4400c + 440c + 1100v + 110v + 550s \Rightarrow 4840c + 1210v + 550s \\ \text{II} & 1600c + 800v + 800s = 3200 \Rightarrow 1600c + 160c + 800v + 80v + 560s \Rightarrow 1760c + 880v + 560s \end{aligned}$$

$$\boxed{9800}$$

YEAR 3

$$\begin{aligned} \text{I} & 4840c + 1210v + 1210s = 7260 \Rightarrow 4840c + 484c + 1210v + 121v + 605s \Rightarrow 5324c + 1331v + 605s \\ \text{II} & 1760c + 880v + 880s = 3520 \Rightarrow 1760c + 176c + 880v + 88v + 616s \Rightarrow 1936c + 968v + 616s \end{aligned}$$

$$\boxed{10780}$$

YEAR 4

$$\begin{aligned} \text{I} & 5324c + 1331v + 1331s = 7986 \Rightarrow 5324c + 532c + 1331v + 133v + 666s \Rightarrow 5856c + 1464v + 666s \\ \text{II} & 1936c + 968v + 968s = 3872 \Rightarrow 1936c + 194c + 968v + 97v + 677s \Rightarrow 2130c + 1065v + 677s \end{aligned}$$

$$\boxed{11858}$$