

Part 4 - Input Output

1. a) $A_{21} = 0.1$ units of farming is needed to produce 1 unit of service

b) 1 unit of logging requires
+ .2 units of service * 2,000,000 \$
+ .4 units of farming "
+ .1 units of logging
= \$1,400,000

$$c) X = AX + D \Leftrightarrow X = (I - A)^{-1} D$$

$$X = \begin{pmatrix} S \\ F \\ L \end{pmatrix} \text{ and } D = \begin{pmatrix} 323 \\ 646 \\ 1292 \end{pmatrix}$$

$$\text{In calc } \rightarrow X = \begin{pmatrix} 2040 \\ 2890 \\ 2210 \end{pmatrix}$$

2040 units of service, 2890 units of farming and 2210 units of logging