

RWSL

15.18

Layin = 19750, $\lambda_0 = 15\%$, $t = 0,34$

$$a) \quad V_N = \frac{\text{Layin} (1-t)}{\lambda_0} = \frac{19750 (1-0,34)}{0,15} = 86900$$

b) $\lambda_B = 10\%$, $t = 0,34$

1) $\lambda_{\text{vida}} = 50\%$, V_N

$$V_A = V_N + B \cdot t = 86900 + 50\% \cdot 86900 \cdot 0,34 = 101643$$

2) $\lambda_{\text{vida}} = 100\%$, V_N

$$V_A = V_N + B \cdot t = 86900 + 100\% \cdot 86900 \cdot 0,34 = 116446$$

c) 1) $\lambda_{\text{vida}} = 50\%$, V_A

$$V_A = V_N + B \cdot t = 86900 + 50\% V_A \cdot 0,34$$

$$V_A - 0,17 V_A = 86900$$

$$V_A = 104.698,80$$

2) $\lambda_{\text{vida}} = 100\%$, V_A

$$V_A = V_N + B \cdot t = 86900 + 100\% V_A \cdot 0,34$$

$$V_A - 0,34 V_A = 86900$$

$$V_A = 131.666,67$$

$$\left\{ \begin{aligned} 131.666,67 &= 86900 + B \cdot 0,34 \\ B &= 131.666,67 \end{aligned} \right\} \text{Chicago}$$