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$$R(x) = \prod_{i=1}^{n} \left[1 - (1 - K_i)^{x_i}\right].$$

(1)

(1)   :

$$T = \ln R = \sum_{i=1}^{n} \ln \left[1 - (1 - K_i)^{x_i}\right].$$

(2)

:

$$C(x) = \sum_{i=1}^{n} C_i k_i x_i$$

(3)

:

$$(x_i, \}) = \sum_{i=1}^{n} \ln\left[1 - (1 - K_{\;i})^{x_i}\right] - \} \times \left(\sum_{i=1}^{n} C_{\;i} k_{\;i} x_{\;i} - C\right),$$

(4)

-        .

(4) $_i$ 0:

$$\frac{\partial (x_i, \})}{\partial x_i} = \frac{- (1 - K_{\;i})^{x_i} \times \ln(1 - K_{\;i})}{1 - (1 - K_{\;i})^{x_i}} - \} C_i k_i = 0$$

(5)

(5) $_i$:

$$x_i = \frac{- \ln\left(1 - \dfrac{\ln(1 - K_{\;i})}{\} C_i k_i}\right)}{\ln(1 - K_{\;i})}$$

(6)

(6)

:

$$\frac{\partial (x_i, \})}{\partial \}} = \sum_{i=1}^{n} C_i k_i x_i - C = 0$$

(7)

:

$$(x_i, \}) = \sum_{i=1}^{n} C_i k_i x_i - \} \times \left(\prod_{i=1}^{n}\left[1 - (1 - K_{\;i})^{x_i}\right] - R\right)$$

(8)

(17) x_i

:

$$\frac{\partial (x_i, \})}{\partial x_i} = C_i k_i - \}(1 - K_{\;i})^{x_i} \ln(1 - K_{\;i}) \prod_{\substack{j=1 \\ j \neq i}}^{n}\left[1 - (1 - K_{\;j})^{x_j}\right] = 0$$

(9)

(9)

$_i$:

$$x_i = \frac{\ln\left(- C_i k_i \Big/ \} \ln(1 - K_{\;i}) \prod_{\substack{j=1 \\ j \neq i}}^{n}\left[1 - (1 - K_{\;j})^{x_j}\right]\right)}{\ln(1 - K_{\;i})}$$

(10)

(8)   :

$$\frac{\partial \quad (x_i, \})}{\partial \}} = \prod_{i=1}^{n}\left[1 - (1 - K_{\ i})^{x_i}\right] - R_{\ } = 0 \qquad . \qquad (11)$$

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$R_o = 0{,}95.$

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	53	45	21
	34	27	8
	48	31	17
	23	18	15
	22	16	23
	2	1	1
	51	43	54
	7	4	2
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