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АККУМУЛЯЦИЯ ЕСТЕСТВЕННОГО ХОЛОДА ДЛЯ ХРАНЕНИЯ СЕЛЬСКОХОЗЯЙСТВЕННЫХ ПРОДУКТОВ

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Ключевые слова:

Аннотация.

ACCUMULATION OF NATURAL COLD FOR STORING AGRICULTURAL PRODUCTS

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Keywords: accumulation, natural cold, passive system, agricultural products.

Summary. The paper deals with the issue of cooling a soil massif with passive systems for accumulating natural cold for storing agricultural products.

Введение.

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 $t = 4\text{ }^{\circ}\text{C}.$
$$t \rightarrow \infty, \quad \frac{1}{t} \rightarrow 0,$$
$$t = t.$$
$$X$$
 χ
$$t(x, [5, 6])$$

$$\frac{\partial t(x,)}{\partial} = a \frac{\partial^2 t}{\partial x^2}, \quad (1)$$

$$a -$$

$$x = 0$$

$$- \frac{\partial t(x,}{\partial x} = t - t \quad , \quad (2)$$

$$\begin{array}{c} - \\ - \end{array}$$

$$t(x,0) = t \quad . \quad (3)$$

$$-$$

$$x = \frac{t(x, -t}{t - t}$$

$$x = \operatorname{erf} \frac{x}{2\sqrt{a}} + \exp hx + h^2 a \operatorname{erfc} \frac{x}{\sqrt{a}} - h\sqrt{a} \quad , \quad (4)$$

$$\operatorname{erfc} = 1 - \frac{2}{\sqrt{\pi}} \int_0^z e^{-t^2} dt -$$

$$h = \text{---} -$$

$$Nu = 0,0195 Re^{0,8}, \quad (5)$$

$$Nu = \frac{d}{\text{---}} -$$

$$Re = \frac{wd}{\text{---}} -$$

$$\begin{array}{c} - \\ w - c \\ - \\ d - \end{array}$$

$$4-4, 4 \frac{\quad}{2}.$$

$$x = 0.$$

$$= \exp h^2 a \operatorname{erfc} h\sqrt{a} \quad (6)$$

1,5-2 °
-3 +2 ° , ,

$$Q_x = Q_{\text{in}} + Q_{\text{out}} + Q_{\text{loss}}. \quad (7)$$

$$Q_s = Q_{S_0} - \frac{2\sqrt{c}}{\sqrt{t-t_0}}(t-t_0)\sqrt{c} \quad (8)$$

$$\Delta Q = \frac{2\sqrt{c}}{\sqrt{t-t_0}}(t-t_0)S\sqrt{c} \quad (9)$$

$$\sqrt{c} -$$

$$t -$$

$$t -$$

$$Q_{S_0} - ,$$

$$-$$

$$S -$$

Заключение.

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