



500 4...6

$$F = 50$$

$$L = 700$$

-4

((N

) (G, /).

	N	G
1) John Deere – 6930	110,3	27,7
2) CLAAS ARION 430	84,6	21,2
3) Zetor Proxima Power 120	81	21,4
4) Belarus 826	60	13,74
:		
1) – 75M	70	16,7
2) NEV HOLAND – 4060	44,13	11

e

- 3,6):

- 1) John Deere 6930 + 4 -3,6; 2) CLAAS ARION 430 + 4 -3,6;  
 3) Zetor Proxima Power 120 + 2 -3,6; 4) Belarus 826 + -3,6;  
 5) – 75M + 2 -3,6; 6) NEV HOLAND – 4060 + -3,6.

(W, /)

1.2 / (8...12 / ) W = 2,5...14,7 / , [3, 7]:

$$W_1 = W_2 = 9,8...14,7 / ; W_3 = W_5 = 4,9...7,35 / ;$$

$$W_4 = W_6 = 2,5...3,7 / .$$

(1 , 8 ):

$$W_1 = W_2 = 78,4...117,6 / ; W_3 = W_5 = 39,2...58,8 / ;$$

$$W_4 = W_6 = 20...29,6 / .$$

4...6 , 180...200 / .

± 5 %,

%. 6...8 , ±1 [3, 4]. ± 4

$$T = F / DK_s = 500 / 5 \cdot 0,85 \approx 118 / ,$$

F = 500

D = 5 -

K\_s = 0,85 -

$$T = T / t \cdot \alpha = 118 / 8 \cdot 1 \approx 15 / ,$$

t = 8

α = 1 -

:

[2, 7]:

$$(W) = W / N E \quad ;$$

$$(W)_1 = 0,1; \quad (W)_2 = 0,14; \quad (W)_3 = 0,07; \quad (W)_4 = 0,054; \quad (W)_5 = 0,045.$$

CLAAS ARION 430 + 4 -3,6 Zetor Proxima Power 120 + 2 -3,6.

- 1) CLAAS ARION 430 + 4 -3,6;
- 2) Zetor Proxima Power 120 + 2 -3,6.

[4,7]:

$$(W) = \sum_{j=1}^n W_{ij} \quad ;$$

$$W_1 = W_2 = 12,2; \quad W_3 = W_5 = 6,12; \quad W_4 = 3,1.$$

$$(W) = W_2 + W_3 = 12,2 + 6,12 = 18,32 \quad ;$$

$$3,32 \quad .$$

[2, 6]:

$$L = 10^4 V m \rho / B q \quad ;$$

$$V = 0,453 \quad ;$$

$$m = 800 \quad ;$$

$$\rho = 0,9 \quad ;$$

$$B = 3,6 \quad ;$$

$$q = 200 \quad ;$$

$$L = 4530 \quad .$$

$$n_x = L / 2L = 4530 / 2.700 = 3,2.$$

$$n_x = 3,2 \quad ; \quad n = 3.$$

$$L = 2 \cdot 700 \cdot 3 = 4200 \quad .$$

$$Q = L \cdot B q / 10^4 = 4200 \cdot 3,6 \cdot 200 / 10000 = 302,4 \quad .$$

$$n = V m \rho / Q = 1,2 \cdot 800 \cdot 0,9 / 302,4 = 2,8 \quad ; \quad n = 3,$$

$$V = 1,2 \quad ; \quad (MTT - 12);$$

[1, 5].

[4, 6]:  

$$g = G \cdot K / W$$

$$G = \frac{K \cdot W}{g}$$

$$K = \frac{G \cdot W}{g}$$

$$W = \frac{G \cdot K}{g}$$

$$g = 0,62 \dots 0,92$$

$$K = 0,69 \dots 0,93$$
 [12, 148].

- 1) CLAAS ARION 430 + 4 -3,6 :  $G = 21,2$ ;
- 2) Zetor Proxima Power 120 + 2 -3,6 :  $G = 22$ ;

$$g_1 = G \cdot K / W = 21,2 \cdot 0,8 / 12,2 = 1,4$$

$$g_2 = G \cdot K / W = 22 \cdot 0,8 / 6,12 = 2,9 \approx 3$$

$$C : \sum g = 4,4 \cdot 500 = 2200$$

[5]:  
 44 ; - 2,0 %  
 13,2 ; - 5,0 % , 110 ; - 0,6 %  
 % , 22 - 1,3 % , 28 ; - 1,0 %

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## IMPORTANCE OF ENGINEERING SUPPORT OF AGRICULTURAL TECHNOLOGICAL PROCESSES IN REALIZATION OF NORMATIVE RESULTS

**B. Basilashvili** - Doctor of technical Science, Professor,

**I.Lagvilava**- Academic Doctor of technical,

**R. Hazhomia**-Academic Doctor of technical.

**Key words:** technological process, complex mechanization, engineering support, productivity of aggregate, expanses

### Abstract

Practical experience of the world's agricultural production indicates that to increase and maintaining in the industry of level of mechanization is necessary the full realization of the modern achievements of science and technology that improve the production operation of the machine and tractor units.

In connection with the increased role of machines in agricultural production and the complication of the tasks facing the rural engineering service it is becoming increasingly clear that further progress in the organization of production would only be achieved on the basis of comprehensive application by engineering and technical personnel of agricultural departments successes of modern science. Is considered as an anachronism the consideration of problems machines application, in that is ignored currently occurring in the branches of agricultural production the scientific and technical progress, aimed primarily on improvement of organization of production and its management methods.