

Ways Of Organization Of Earth Treatment And Treatment Of Decreasing Prices

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Abstract— This article provides a theoretical analysis of the correct selection of machines and mechanisms in the organization of leveling works and the calculation of their economic performance. At the same time, the problems of reducing the cost of land leveling due to the natural climatic conditions of Bukhara region are complete.

Keywords— Bucket, soil, resource-saving, technology, softening, bullet, area, device, scheme, aggregate speed, machining, diameter, radius of curvature, grinding quality, roughness.

1. INTRODUCTION

Leveling of arable land is one of the most important agro-technical and hydraulic measures in increasing crop yields, efficient use of fertilizers, mechanization, irrigation water and saving labor costs. At the same time, leveling the land ensures that the sown seeds are sown at the same level and depth, that the seeds germinate at the same level, that the seedlings grow and develop evenly, and that the soil between the rows is well tilled. It is also important to level the saline, icy waters. This is due to the fact that the micro-relief of uneven lands, ie uneven and high-low, leads to uneven distribution of water over the area during the washing of saline and ice water, insufficient moisture in some areas, and excessive wetting in some places. As a result, the aeration of the soil, its biological and chemical processes, air exchange and heat regimes are disrupted.

2. MAIN PART

It was observed that when planting on saline, uneven lands, the seedlings sprouted poorly, the total number of plants was less than planned, and in some places the seedlings did not sprout at all. This is due to the fact that the salinity of the soils above the general level is not completely washed away during the salinization process, the seedlings are weak, do not grow evenly and dry out. As a result, the yield of agricultural crops will fall sharply. Improper organization of this process is one of the main reasons for the increase in the cost of flattening. Therefore, one of the most pressing issues of today is the correct selection of machines and mechanisms for leveling the land as much as possible, and on this basis to carry out the process of leveling qualitatively and at the required level.

Agricultural specialists should always strive to increase the efficiency of the use of machine-tractor units and reduce the cost of work performed with the help of machinery.

We know that the cost of mechanized work can be determined from the following formula:

$$C = \frac{C_0}{W} \quad (1)$$

where C is the cost of work performed with the help of mechanization, sum/ ha or sum/ unit of work (t, l, m³, km, etc.).

C₀ is the sum of expenses for this work, soums.

$$C_0 = C_1 + C_2 + C_3 + C_4 + C_5 + \dots + C_n \text{ сўм} \quad (2)$$

Here: C₁ - wages of mechanics and technical engineers, auxiliary workers, soums; C₂ - Expenditures on GMP, soums; C₃ - spare parts (rubber, battery and others), soums; C₄ - repair and maintenance costs, soums; C₅ - workshop, equipment, mobile workshops depreciation costs, soums; W is the volume of work performed with the help of this MTA (ha, t, km, etc.).

Analyzing this formula, it was determined that the following steps need to be taken to increase the efficiency of the tractor units.

C_1 is the salary. At the same time, it is important not to allow the mechanizer to reduce his salary directly, but rather to reduce the number of workers serving the unit. This can be done with the help of complex mechanization. It is important to try to do a few operations at a time. (scratches, flattens, scratches).

C_2 - In order to reduce the cost of fuel, it is necessary to pay attention to the following: High-quality repair of fuel equipment, timely maintenance. Except for pipelines should not be allowed. It is necessary to ensure that the fuel distribution works are of high quality and meet the requirements. Do not allow the unit to refuel with the help of buckets.

Experience has shown that if the maintenance of engines is carried out in a timely manner, the fuel consumption of the tractor can be reduced by 10-20%.

C_3 - spare parts - should be spent according to the norm. This can be done when the mechanic is encouraged to use the saved money for saving spare parts..

C_4 - It should be the law for us to conduct THC work on time, whether it requires it or not. At the same time, the cost of repairs is reduced.

C_5 - In order to reduce these costs, it is necessary to maintain high-quality equipment and technical condition, on the contrary, they are still ignored on farms. Every year, specialists from the State Standards Enterprise should inspect the equipment.

(1) shows that the more work done per unit of time, the lower the cost. To do this, it is necessary to increase the productivity of MTAs.

The performance of the machine-tractor unit depends on the following.

$$W_{agr} = 0.1 \cdot B \cdot V \cdot \tau \cdot \beta \cdot \epsilon, \text{ ha / hour (h)}$$

where: B - unit enclosure width, m; V - speed, km / h; τ = coefficient of time / hour consumption; β is the coefficient of use of the coating width; ϵ is the velocity coefficient.

3. CONCLUSION

In order to increase the productivity of the machine-tractor unit, it is necessary to implement the following: rational use of shift time; Adopting the optimal options for the width and speed of the machine-tractor unit; quality preparation of arable lands for technical operation; Maintaining the technical condition of machine-tractor units; The knowledge, experience and specialization of the operators of the machine-tractor units must meet the requirements. When we say optimal speed and width, we mean speed and width that meet the requirements of the quality of work. Based on the results of their research, the scientists of the Bukhara branch of the TIQMMI recommended 7-9 km / h for land leveling in Bukhara region. Based on the results of research, the following should be recommended to reduce the cost of land leveling services:

- Maintenance of equipment in MTPs through proper organization and timeliness;
- By increasing the annual or seasonal productivity of machines;
- Provision of repair and maintenance bases with modern stands and technological equipment;
- Use of combined techniques to perform several operations at once.

As a result, the yield of cotton and wheat will be higher than expected.

In conclusion, it is necessary to create a plan for the revision of the crops, their improvement and the re-implementation of the design of the techniques used in the leveling of the cultivated lands in the above recommendations.

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