

EQUIPMENT FOR CRUSHING AND DISTRIBUTION OF FEED FOR DUNG WORMS (*EISENIA FETIDA*)

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Annotatsiya: Go'ng chuvalchaglari xususan, *Eisenia fetida*, ozuqa moddalarining aylanishiga, tuproqning aeratsiyasiga va umumiy tuproq salomatligiga hissa qo'shadigan muhim tuproq organizmlaridir. Go'ng chuvalchaglarining oziqlanish odatlarini qo'llab-quvvatlash va vermikompost tizimlarida ularning ish faoliyatini yaxshilash uchun ularni yaxshi tayyorlangan va oson kirish mumkin bo'lgan parhez bilan ta'minlash juda muhimdir. Ozuqani maydalash va tarqatish uchun maxsus uskunalardan foydalanish oziqlantirish jarayonini soddalashtirish, ozuqa moddalarining mavjudligini yaxshilash va go'ng chuvalchaglarining o'sishi va ko'payishini rag'batlantirishi mumkin. Ushbu maqolada biz *Eisenia fetida* uchun ozuqani maydalash va tarqatish uchun uskunalarining ahamiyatini o'rganamiz va ularning ovqatlanish tajribasini optimallashtirishi mumkin bo'lgan asosiy vositalarni ta'kidlaymiz.

Kalit so'zlar: go'ng chuvalchaglari, organik moddalar, organik chiqindilar, maxsus uskunalar, maydalash.

Аннотация: Навозные черви, особенно *Eisenia fetida*, являются важными почвенными организмами, которые способствуют круговороту питательных веществ, аэрации почвы и общему здоровью почвы. Чтобы поддержать пищевые привычки навозных червей и улучшить их продуктивность в биогумусных системах, важно обеспечить их хорошо приготовленным и легко доступным рационом. Использование специального оборудования для измельчения и разбрасывания корма может упростить процесс кормления, улучшить доступность питательных веществ и стимулировать рост и размножение навозных червей. В этой статье мы исследуем важность оборудования для измельчения и раздачи корма *Eisenia fetida* и выделим ключевые инструменты, которые могут оптимизировать процесс кормления.

Ключевые слова: навозные черви, органическое вещество, органические отходы, специальное оборудование, измельчение.

Abstract: Dung worms, particularly *Eisenia fetida*, are important soil organisms that contribute to nutrient cycling, soil aeration, and overall soil health. To support the feeding habits of dung worms and improve their performance in vermicompost systems, it is essential to provide them with a well-prepared and easily accessible diet.

The use of special equipment for crushing and spreading feed can simplify the feeding process, improve nutrient availability, and encourage the growth and reproduction of dung worms. In this article, we explore the importance of equipment for grinding and distributing feed to *Eisenia fetida* and highlight key tools that can optimize their feeding experience.

Key words: dung worms, organic matter, organic waste, special equipment, grinding.

INTRODUCTION.

Eisenia fetida are hungry feeders that play an important role in breaking down organic matter and enriching the soil with valuable nutrients. In vermicompost systems, these hardworking creatures rely on a constant supply of organic nutrients to sustain their activities and contribute to the decomposition of organic waste.

MATERIALS AND METHODS.

In order to ensure a properly balanced diet for earthworms and to increase the efficiency of nutrient processing, feed must be prepared and distributed in a way that is easy and digestible for them. Grinding and distributing food for dung worms can significantly affect their feeding behavior and overall performance in vermicompost systems. By breaking down organic material into smaller particles, earthworms can consume and digest their food more efficiently, resulting in faster decomposition and release of nutrients in the soil. In addition, the equal distribution of food throughout the vermicompost box ensures that all worms have equal access to food, which allows for uniform growth and reproduction in the population. Compost worms, especially *Eisenia fetida*, break down organic waste and are valuable decomposers that play a crucial role in enriching the soil with nutrients. In order to optimize the feeding process and productivity of dung worms in a vermicompost system, it is essential to provide them with a well-prepared and easily digestible diet. Effective crushing and distribution of food for dung worms greatly improves their feeding efficiency and overall performance. A food processor is a versatile kitchen appliance that can be used to grind a variety of foods and grind them into pieces that are more suitable for the dung worms. Choose a food processor with sharp blades and multiple speed settings to process different types of food waste, such as fruit and vegetable scraps, coffee grounds, and eggshells. By using a food processor, you can quickly and efficiently prepare food for dung worms without having to manually chop or chop them. A mortar and pestle is a traditional tool used to grind and grind food into a fine paste or powder.[2]

This manual method of food preparation is ideal for processing small amounts of food waste or solid materials that are difficult to grind with other equipment. Use a mortar and pestle to grind eggshells, nuts, and seeds into a fine powder that can be

easily eaten and digested by earthworms is a powerful kitchen tool that can be used. Blenders are suitable for processing soft and liquid food scraps such as fruit peels, vegetable scraps and leftover juices into a nutrient-rich slurry for dung worms. Choose a blender with a powerful motor and durable blades to ensure thorough mixing of food ingredients for optimal digestion by dung worms. A food grinder is a special tool for grinding and grinding meat, bones and other solid food into small pieces. [3]

RESULTS AND DISCUSSIONS.

Although earthworms feed mainly on plant material, introducing small amounts of protein-rich food sources such as meat scraps or fish waste can improve their diet and encourage their growth and reproduction. Use a food processor to process protein-rich food waste into manageable portions so that the dung worms can eat it as part of a balanced diet. An automatic feeder is a convenient device that regularly distributes food to the dung worms, ensuring a constant supply of food and reducing manual feeding efforts. [4]

Automatic feeders can be programmed to portion out food in controlled portions, preventing overfeeding and minimizing food waste in the vermicompost system. By using an automatic feeder, you can maintain an optimal feeding schedule for the dung worms and ensure efficient nutrient cycling during the composting process.[5]

CONCLUSION

By incorporating the right equipment and techniques to crush and distribute food for your dung worms, you can enhance their feeding experience, encourage healthy digestion, and help recycle organic waste. You can increase your contribution. Be sure to monitor the feeding behavior of the dung worms, adjust the amount of food as needed, and maintain suitable environmental conditions in the vermicompost system to support their well-being and productivity. With proper care and attention to food management, you can create a thriving ecosystem where earthworms thrive and play an important role in sustainable waste management and soil enrichment.[1]

REFERENCES:

1. Alijanov D., Vokhidov A.V., Suvonkulov Sh. Mechanization and automation of poultry farms/Tashkent, Davr publishing house, 2012. -208 pages.[1]
2. Alijanov D., Tojiboev B.M. Mechanization of feed preparation processes in animal husbandry/Tashkent. Economics and Finance Publishing House. 2010, -162 pages.[2]
3. Aleshkin V.R., Roshchin P.M. Mechanization of life. - M.: Agropromizdat, 2013.[3]
4. Bolotnov P.M., Lukyanov V.M. Mechanization ptisevodstva. - M.: Agropromizdat, 2009[4]
5. Ergashev A.. "General ecology", T. "Teacher". 2013.[5]