



Liquid High-Concentration Cattle Manure Biohumus Manufacturing

What is biohumus (worm compost)?

- Black crumbly soil-like mass similar to chernozem (rich black soil). It is obtained as a result of organic waste processing by worms.
- Contains a large amount of humic substances, in particular, humic and fulvic acids and humins, which accounts for its excellent agrochemical and growth-stimulating properties.

Advantages of use of worm compost:

improves resistance to natural negative factors (heat, frost);

reduces the use of plant protection products (herbicides, phytoncides) by 25% -30%;

reduces the consumption of mineral fertilizers;

is a natural stimulant and growth regulator;

reduces the maturation period;



**ALL COMPLAIN
ABOUT THE LACK OF
MONEY, BUT
NOBODY
COMPLAINS ABOUT
THE LACK OF
INTELLIGENCE.
- A JEWISH WISDOM.**

What is more valuable: gold-bearing soil or cow manure?



1 ton
of gold-bearing soil
for profitable gold-mining



2 kg of gold



1 ton of manure



600 kgs of biohumus
10 kgs of
Starátel
(Prospector)
worms
to an amount
equivalent to



10-15 g of gold

**What can be done if you have 1,000 t of manure and
apply it in the field?
You can treat 20 – 50 ha of fields.**



The manure application rate averages 50-20 t per hectare

**What can be done if you have 1,000 t of biohumus
and apply it in the field?
You can treat 250 ha of fields.**



The dry biohumus application rate averages 4 t per hectare

Benefits and drawbacks of dry biohumus application

- **Benefits:**
 - Increase in soil fertility.
 -
- **Drawbacks:**
 - It is necessary to additionally have and drive special equipment into the field.
 - Uneven distribution of biohumus in the field.
 - Like manure, biohumus only begins to work effectively in the second or third year (natural conversion of humic substances into a water-soluble form).
 - Elevated, irrational consumption of dry biohumus in relation to foliar fertilizing rates.
 - Simultaneous fertilizing of crops and weeds.

Foliar fertilizing with liquid biohumus

Foliar fertilizing of winter wheat



Average total consumption makes up 6-8 liters of concentrate per 1 ha of grain crops.

The total area of fertilizing with 1 ton of standard concentrate makes up 125-165 hectares.

Benefits and drawbacks of foliar fertilizing with liquid biohumus concentrate

- **Benefits:**

- Rapid fixation by the crop of the preparation applied.
- The preparation can be used in the same tank mixture with other protection products. (No need for additional equipment entry into the fields.)
- Application rates of protection products reduced by 15% -30%.
- Application rates of mineral fertilizers reduced by 10% -20%.
- Strengthening of root nutrition, due to the conversion of a part of microelements from water-insoluble to water-soluble form thanks to the concentration of the liquid preparation around the stem during spraying.
- Possibility, after foliar diagnostics, of carrying out additional adjustment of soil preparation using microelements with liquid biohumus.

- **Drawbacks:**

- In case of less than 2 hours between the time of spraying and the start of rain, the application effect will be barely noticeable.

**Average standard liquid biohumus fertilizer
consumption
is 2-2.5 L per hectare in one tank mixture
with plant protection products**

**We provide the consumption of 20-25 mL per
hectare**



**A DRONE IS CAPABLE OF TREATING
50 HECTARES
IN THE COURSE OF ONE FLIGHT**

WHAT DO WE OFFER?

- 1. Setting up of a new joint venture that has no analogues in the world.
- 2. Change of the technological process, which results in a 100-time increase in concentration of the existing preparation.
- 3. A sharp increase in liquid organic fertilizer manufacturing volumes without loss of quality.
- 4. Minimization of industrial space and personnel while increasing business profitability.

What is the effect?

LOGISTICS:

With the old option, 100 twenty-ton trucks will be required to carry a single cycle concentrated fertilizers for a cultivated area of 800,000 hectares, depending on the crop.



The new option will require only 1 truck.

- No need to keep own and dealers' large storage areas
- Ability to quickly respond to dealers' and farmers' requests even during the sowing campaign. A passenger or light vehicle is required for delivery, with the possibility of delivering fertilizers by all transportation means, including aviation, due to the small dimensions and light weight of the cargo, with a high concentration of organic fertilizers in the package.

Cutting Transportation Costs

- **Cutting costs:** for a one-time treatment of grain crops on an area of 800,000 hectares, only in terms of logistics, as of May 2021, subject to the need to transport a new organic concentrate, Sana-Tam fertilizers, by road, from point A to point B, to as far as:

Distance (km)	Old Option	New Option	Saving
1.000	23.000.000	230.000	22.770.000
2.000	22.500.000	225.000	22.275.000
3.000	22.500.000	220.000	22.280.000

- (Saving is obtained from tare cost + vehicle mileage)

Manufacturer economics:

**The average cost of 1 kg of biohumus in Russia is 15 rubles
(\$ USA 2)**

Liquid organic fertilizers from Sana-Tam biohumus:

(1 kg of biohumus goes to make about 2.5-3 liters of standard fertilizer).

Price of 1 L of Fertilizer, USD	Price of 1 L of Fertilizer, (USD-ruble exchange rate: 1 USD - 70 rub.)	Income for Liquid Fertilizer Manufacturer per Ton of Dry Biohumus, USD	Income for Liquid Fertilizer Manufacturer per Ton of Dry Biohumus, rubles
\$2	140	5.000 /6.000	350.000/420.000
\$3	210	7.500 /9.000	525.000 /630.000
\$4	280	10.000 /12.000	700.000/840.000

*** Market price of one liter is between 2 USD and 8 USD**

Production economics

- The capacity of one line makes up 500 t - 1,500 t per month
- The cost price of 1 liter is about 1.USD
- The market price of 1 liter is between 2 USD and 8 USD
- If the price of 1 liter of fertilizers is 4 USD, the monthly income ranges from 6,000,000 USD
- The required investment amount for the project is about 2,100,000. USD.

CONTACTS:

- **Oleg Nikolayevich Saulov,**

- CEO and Founder, OOO Sana-Tam

- **+ 7 978 753 20 33**

- Email: osaulov@mail.ru

- Skype: saulov88

Telegram, Viber, WhatsApp, Signal, Imo.

•

- www.sanatam.com