In the article the scientific substantiation of parameters MTB components of agricultural enterprises on the basis of the author's economic-mathematical model that provides business entities receiving income from production and business activities of the following conditions: compliance with optimal size and structure of agricultural land and acreage; enhance the natural fertility of the soil by improving the crop pattern, increasing crop legumes and grasses, use of green manures; number of animals and birds; compliance with scientifically based dietary feeding of livestock and poultry livestock; sustainable use of mineral and organic fertilizers; using a set number of means; determine the amount of funds that reflect the value of existing and new technology that needs to be purchased for the relevant industrial and economic processes and requirements for ongoing technology.

**Keywords:** optimization, economic and mathematical modeling, material-technical base, machine and tractor fleet, land, fertilizer