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**INFLUENCE OF MULCHING OF SOIL IS ON THE PRODUCTIVITY OF  
GARDEN-STUFFS OF SQUASH IN THE CONDITIONS OF FOREST-  
STEPPE RIGHT-BANK OF UKRAINE**

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**Raising of problem.** The system of technological receptions of supervision upon vegetable cultures must be sent to the most rational use by the plants of nutritives, moisture and sunny energy for forming of maximal harvest from unit of area. One of methods of facilitation of growing of plants, creation of favourable terms, in particular and for squash and increase of the productivity there is mulching of soil. Mulching is an agrotechnical reception that means superficial coverage of soil different organic or synthetic materials. Researches on mulching of soil at Forest-steppe Right-bank not enough Ukraine was conducted, that is why there is a necessity of them the detailed study.

**Results of researches.** More short period stair – beginning of forming of fruit was for mulching of soil tape polyethylene black – a 29 days, duration of that on a 8 days is less as compared to a variant without mulch. A period of beginning of forming of fruit is a technical ripeness substantially did not differ between the investigated variants, however, shorter he was for mulching of soil by tape polyethylene black and on control and presented according to a 4 days. One of major indexes, that influences there is duration of fruiting on the size of harvest. Longer in all the period of fruiting lasted on variants for mulching of soil by tape polyethylene black – a 92 days, and on control a 82 days, that accordingly on a 10 days more short.

On the period of technical ripeness conducted the biometrical measuring in obedience to that, most length of stem was formed by plants for mulching of soil by tape polyethylene black are a 82,6 cm, that on a 15,1 cm anymore from a variant without mulch. A most thickness of stem in the phase of technical ripeness plants had for mulching of soil by tape polyethylene black are a 32,4 mm, that anymore from control on a 4,0 mm it is set researches, that mulching materials substantially influenced on forming of sheets. Among the investigated variants the plants of squash had most of sheets for mulching of soil by tape polyethylene black are 32,6 p./plant, and on control are 21,8 p./plant, that on 10,8 p./plant less than.

Plants had a most area of sheets for mulching of soil by tape polyethylene black is 17,5 thousand m<sup>2</sup>/ha, that on 6,4 thousand m<sup>2</sup>/ha more control. The least area of sheets was marked on a control variant is 11,1 thousand m<sup>2</sup>/ha. For

mulching of soil the area of sheets presented a straw and sawdusts is 11,9–12,2 thousand m<sup>2</sup>/ha accordingly.

A size of harvest is a basic index that determines influence of mulching material. For period of realization of researches a size of harvest was different and depended on mulching material. The greater productivity for years researches was got in 2015, due to terms that were friendly to the height and development of squash. The most optimal terms for a height, development and forming of harvest of plants of vegetable marrow were found for mulching of soil by tape polyethylene black – 52,1 t/ha, where an increase in relation to control made 10,2 t/ha. Importance of this difference is confirmed by the results of analysis of variance on the years of researches. It is set that mulching of soil on the productivity of squash influenced on the average on 85,5 %. The most of garden-stuffs was got for mulching of soil tape polyethylene black are 15,3 p./plant, that on 1,4 p./plant anymore from control. A variant had most mass of fruit for mulching of soil by tape polyethylene black are 313 g, that on 27 g more control. Variant for mulching of soil tape polyethylene black was characterized also by the most diameter of fruit are a 5,0 cm, and it on a 0,3 cm is more control.

**Conclusions.** Thus, in obedience to undertaken studies positive influence of mulching materials is set on a height, development and fruiting of plants of squash. Before phenological phases marked for mulching of soil tape polyethylene black, and the offensive of phases of development of squash prolonged mulching of soil sawdusts and straw in relation to control. Researches showed that mulching of soil positively had influenced on the productivity and biometrical indexes of products of squash, especially application of tape polyethylene black, that provided the receipt of harvest at the level of 54,8 t/ha in 2015 and 49,3 t/ha in 2016.

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