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ABSTRACTS

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EFFECT OF TECHNOLOGICAL PROPERTIES OF PEA SEEDS AND PROCESSING MODES ON DEHULLING EFFICIENCY

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Abstract:

The process of dehulling grain peas is the most important technological operation of groats of pea seeds. It is determined that the increase of processing time, the pea seeds, the speed of the working organs and filling coefficient of the working chamber of the dehuller increase the efficiency of dehulling peas by linear dependence. Increase in the size of pea seeds contributes to increase of efficiency of dehulling mainly due to increase of the yield of small.

The increase in the scale of seeds leads to a decrease in the dehulling index. Along with the increasing efficiency of dehulling, increases and yield of trinkets at the expense of the kernel. With the increase in the moisture of pea seeds, the yield of a fine grits increases compared to the dehulling of dry pea. Yield of the kernel is directly proportional to the reduction of the yield of unde-hulling seeds. The yield of a fine grits also has linear dependencies when you change the following parameters. In the process of dehulling reduces the ash content of the kernel, but also decreases the ash content and husk and dust middlings, which is the result of transition of low-ash content particles of kernel into the dust middlings. For effective dehulling of pea seeds, it is necessary to carry out dehulling for 10...15 s, filling coefficient of the machine must be not less 0,48. Pea seeds with an absolute mass of 257 g, dehull better than pea seeds with an absolute mass of 213 g.

Key words: *peas, dehulling, kernel, ash content, moisture, husk, dust middlings, fine grits*