Title	Extracts of peat and peat-generating plants for protection of apple fruit against scald during storage
Author	Martsinkevich D.I. and Krivorot A.M.
Citation	Плодоводство, 18 (1) p. 165-170, 2006.
Keywords	Apples; Storage; Peat; Extracts; Postharvest decay; Potentilla; Scald; Belarus

Abstract

The research was carried out in 2001-2005. The influence of postharvest treatment of fruits with extracts of reed peat and peat-generating plants (reed and Potentilla) on the development of microbiological diseases and physiological disorders during long storage was studied. Objects of study were fruits of the Belarusian sortment: Antey, Alesya, Verbnoye, Zarya Alatau, Tellisaare. Fruit storage temperature was 0...+1°C at relative air humidity 95%. Postharvest treatment of fruits by extracts of peat and peat-generating plants increased the output of standard fruits after long storage for the sum of varieties in total, by 18.2-24.6% and provided the decrease in natural loss of mass by 0.4-0.8% comparing to the control variant. The research results showed that the fruit treatment with extracts of peat and peat-generating plants were less attacked by scald. Postharvest treatment of fruits by extracts of peat and reed peat is recommended as a protection against scald on practice. Affection by this disease of the not treated fruits in a control variant on the sum of all varieties made 6,3 % while fruits treatment by extracts of reed peat and peat-generating plants (reed and Potentilla), after the period of storage were damaged by scald only by 0-0,8 % accordingly. In the sortment category in a control variant where the postharvest treatment of fruits processing was not made fruits of varieties Verbnoye, Zarya Alatau, Tellisaare were damaged by scald by 8,3; 13,5 and 9,2% accordingly