Machine Apple Harvesting Tested



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The trellis apple harverer has a bulk bin worked well during the short time it has ben used in experimental orchards. In future years is may help to solve the problem of labor shortages in the its designers, Gary W. Allshouse and C 7 Morrow

tors or grape harvesters. It is of the crop possible to haivest trees eight tween rows

a machine for the future — a plates also channel the harvested Damage to tree trunks has been figure on a machine cost of harvester for implies groups on a fruit onto conveyor belts. Con slight 10 per 10 miles also with a 10 per 10 miles are onto the figure of the fig harvester for apples grown on veyors on either side carry fruit narrow hedgerows or trellises, a toward the rear of the machine clevate it, and then lower it into obvious drawbacks. The harvest

season, a rotating, vibrating from the rows in a fairly the row must travel at reate o shaker with numerous bars straight line which increased the about 3/10 mile per hour Usin reaching into the tice is being turning space needed at ow the rocating vibrating shaker de tree fruit industry, according to limited tests on Golden Delicious used to detach the fruit. In ends and York varieties, the shaker has removed 85 to 90 per cent shaker that attached by a clamp speds up to one mile per hour This machine straddles the of the fruit. The engineers plan to each tree was used to detach tree rows and is similar in ap- to redesign the shaker for more the fruit. This unit was mountpearance to high clearance trac- vigorous action to harvest more ed on the side of the harvester

feet in height and three feet tional problems need some ad-A number of specific opera- minute across the row with the new ditional study, Allshouse and Although the tree shaker did a machine. For hedgerow apple production, dwarf-type trees are planted six to eight feet apart in concepts and principles used in fruit, 90 per cent, it was not fast planted six to eight feet apart in the preliminary design have enough to be practical Allsproven valid

padded with foam rubber are form a seal around the tree and duce machine harvest costs to

However there were two er could not be backed up once loss for changing bins and turn During the eurient harvesting was necessary to enter and exit harvesting continuously down

> and operated with a three-inch stroke up to 300 cycles per

house and Morrow believe that between 100 and 150 trees must Overlapping fiberglass plates The overlapping plates used to be harvested per hour to re-

Agricultural engineers at Penn, used to form a seal around the collect fruit have done very the same level as present hand State University have developed tree and collect the fruit. These well, the engineers claim harvesting. Their estimate roughly \$20,000 with a 10 pe cent fruit loss

> Assuming a 20 per cent time started down the row. Also it may at the row ends a machine veloped for the currest season Last year, an experimental the machine has operated at

sleep well



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