Good Quality in Prunes Requires That the Operator Have Control of the Three Essentials in Dehydration; Tem- ly, the proper scientific attention perature, Circulation and Humidity-Quality Is Close- necessary to economic production ly Associated With Heat

These are the steps outlined by increases evaporation.

Three Essentials of Dehydration midity. The temperature that close seems best. fruit can stand is dependent to some extent on circulation, and the is somewhat dependent on the vol- good economic results. ume of air per minute, which varies with circulation.

Nothing definite concerning any all factors, including circulation with the natural draft tunnel.

ment and as a running expense. Quality is very closely associated dryer. with heat and maybe lowered in either of three ways. Too high initial temperature will cause dripping. Too high finishing and caramelization. Too low tem-

pearture causes fermentation and Moisture, commonly considered aporation, but in the long run will further evaporation by permitting a steady uniform conduction and and cost by preventing case hardening and increasing conduction of

decrease the drying time.

The relation of circulation moisture and temperature, while not



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Preparing dried prunes of qual- definitely known, has been shown a necessary part of standardizaity involves sanitation in handling, by experience to be very definite. In the early days less attengrowing and harvesting fruit of Increase in temperature increases tion was given to this factor than the right type, preparing the fruit evaporation. Increasing humidity it deserved." There was, he by grading, dipping and drying under certain conditions decreases thinks, ample reason for hesitanand by processing and packing, evaporation, Increasing circulation cy to use commercial dried foods

cultural products investigation at culation work in combination to exist. the Oregon Agricultural college remove moisture from the fruit; experiment station. One of thes but their power is limited, de- where all boxes are cleaned and chief factors in drying and proces- pending on the product. The aim the packers warned against putsing is the new mechanical draft is to complete evaporation in the ting rotten or moldy fruit in with prune dried developed at the Ore- shortest time consistent with qual- the good. It is often required ity. Temperature has an influence that all fruits and vegetables be on the drying time under all con- covered in transit to the drier to ditions-low, medium or high hu- prevent soiling with road dust. Good quality in prunes requires midity. With prunes an entrance Even with these precautions the that the operator have control of temperature of 120 degrees to 130 prune is washed before it is placed the three essentials of dehydration degrees gradually increasing to in the drier. If lye solution is not

Relative humidity of 15 to 30 should be rinsed in cold water. per cent and an air movement of capacity of a tunnel per cubic foot 600 to 750 feet per minute gives

developed at the Oregon station is not exceptionally complicated. Staof these factors can be given until tion work was done to get simplicity of construction and economy of and humidity, are under control of operation. The old Oregon tunnel the operator, which is impossible as constructed at the station was modified by adding a recirculating system to obtain more constant Heat is the first essential in dry-temperature, increase relative huing, as it is first in the cost col- midity and give more uniform proumn, both as an essential invest-duction, reduce production cost and increase the capacity of the

Rapid Circulation of Air

through the floor at the filling end words some facts and figures that of the tunnel and forced into the are of intense interest and value temperature causes bloats, burns enclosed furnace chamber. It is to the walnut growers of the Salforced by baffling between the hot em district:) pipes and up through the throat of the drying tunnel at a rate of about 1000 feet a minute. By alan enemy of drying, lessens ev- lowing air to reach only through branch of the Oregon Walnut excape through a similar opening in dle this year's 100 tons of nuts diffusion. It infuences quality was beneficial in keeping the fruit countles. The association con-

a minimum by recirculation of the trict on the south. air, which loses only 10 to 20 per Speed of air circulation influ-cent of heat in passing through the walnut growers to perfect an effiences quality and cost by modify- tunnels. It costs \$2.20 for electric clent marketing organization, says ing the rate at which evaporation power and \$2 for wood at \$6 a C. J. Hurd, marketing specialist takes place. It may lessen the cord to dry 1 ton of prunes-dry of the state college extension serchance of scorching and it may weight. A No. 8 Multivane fan vice, "when it is not especially driven by a 71/2 horsepower motor difficult to market the nuts. Ore-

er or commercial drier is invited consumption."

ed, depending upon the fruit being evaporated. Evaporation is best when completed in the shortest time consistent with quality. A Complicated Problem

ariants has been found quite omplicated," declares Professor Wiegand. 'The range of temperature is from 100 to 200 degrees Fahrenheit, circulation from 200 lineal feet per minute to 1200, and humidity all the way from natural to 40 per cent.

"Growing conditions in Oregon are peculiarly adapted to many varieties of prunes. There is a large acreage of Italian prunes in

the Pacific northwest. Orchard investment for volume and large sums of money are involved in orchard production. All this cost is economy in expenditure for drier and for drying the prunes.

"The superior method of drying by mechanical draft has been the only method possible in Oregon, but has not received, until recentof a superior production.

Sanitation Is Necessary "Sanitation is also considered as prepared according to modern me-Ernest H. Wiegand, head of horti- Temperature, humidity, and cir- thods. These reasons no longer

Sanitation starts in the field temperature, circulation and hu- 150 degrees to 165 degrees at the used, boiling water should be, and in either case the product

The mechanical draft tunnel as eveloped at the Orest tunnel as

This Was Consumption Growth in 20 Years; 60 Per Cent Even Yet

(Following is a current bulletin of the department of industrial journalism of the Oregon Agricul-Air is taken from the drier tural college, giving in a very few

ciation has been organized as a an opening 2x10 inches and to es- change, cooperative, and will hanthe stack increases humidiy, which grown in Marion, Linn and Polk pliable and from case hardening. | nects up with the Dundee district Fuel consumption is reduced to on the north and the Eugene dis-

"This is an opportune time for was used to maintain a rate of 760 gon producers have an excellent lineal feet a minute for the air opportunity to establish the Ore-A fan of wrong construction and build up a reputation for a superinadequate capacity will cause for product, standardized and much grief and fail to do the graded. We will then have an work, says Professor Wiegand. He outlet for an increasing amount of suggests that before installing a the Oregon product as domestic fan for handling the air the grow- production more nearly balances

Action in organizing to promote Temperature, humidity and cir- the nut industry is in harmony ulation work in combination to with the recommendation of the emove moisture from the fruit, state economic conference. The but their power is limited though recommended variety is Fran-EXPERIENCE AND GUARANTEE their capacity is relatively unlimit- quette grafted to the root stock of northern California black wal-

> It was shown at the conference that use of nuts in the United States increased from 74,000,000 pounds in 1900 to 355,000,000 in "The problem of combining 3 1920. Even at that home production was only about one-fourth of home consumption. At that time only about 60 per cent of the plantings were in bearing.

(Following are excerpts from a current bulletin of the department of industrial journalism of the Oregon Agricultural college:)

Curing Good Hay Factor Successful hay curing in Oregon depends on getting the surplus moisture dried out rapidly with the least loss of leaves and fine parts. Cutting hay while it has plenty of green leaf surface and nutrition in the plant is recommended by the experiment station. Over ripe hay with the seed fully former and ripened has a large loss of leaves, which materially lessens its feeding value. The palatability is decreased and the market price lowered. The experiment station is cooperating with the United States department of agriculture in the development of new hay grades.

Dry Time Hurts Thistles Canada thistles and other perennial weed pests are more easily controlled during the dry weather now present in Oregon. Cutting off the plants and burning those which are about to bloom will greatly weaken them, finds the experiment station. Plowing and spring toothing the ground will kill many of the roots. Continued clean cultivation during the summer and sowing a heavy smother crop of grain and vetch early in the fall will do much toward elim-

Land plastered clover is stand-

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