

crates. For tender, quick-ripening fall varieties, a box has given the best results, as the fruit cools more quickly than it does in a barrel. The barrel is satisfactory for the slow-ripening winter varieties, while an open crate is desirable only when the fruit is to be stored for a short time, as it is likely to shrivel when stored in an open package.

The use of paper wrappers preserves the brightness of the fruit, prevents bruising from contact in the packing, and, with some varieties, appears to assist in keeping the fruit in prime

condition a little longer. Unprinted newspaper makes a satisfactory wrapper. It is adapted to the storage of high-priced fancy fruit.

DO NOT STORE TOO LONG

The most satisfactory result is secured when the fruit is withdrawn from cold storage and used while in prime condition. If held beyond this time, it deteriorates rapidly after removal from the low temperature, and, if withdrawn while the fruit is prime, it appears to keep as long as apples in the same condition of ripeness that have not been in cold storage.

Petroleum Emulsion for the San Jose Scale

BULLETIN No. 49, by C. D. Jarvis, of the Storrs Experiment Station, treats of a new remedy for the San Jose scale. The lime-sulphur wash, which for a number of years has been considered the standard remedy, has many undesirable qualities. It is corrosive to man, to horses, and to spraying apparatus; its preparation requires care, time and an elaborate outfit; it must be applied while warm, and if applied in the fall frequently causes injury to the trees.

The various proprietary remedies or so-called "soluble oils" on the market have been thoroughly tested and favorably reported upon by several experiment stations and prominent fruit growers. The cost of these preparations, however, makes their use almost prohibitive for commercial orchardists. These soluble oils are concentrated petroleum emulsions, made by a process known only to the manufacturers, and are the outcome of the strong demand for an efficient scale remedy that may be more conveniently prepared and less offensive to handle.

The Storrs Experiment Station, in the bul-

letin referred to, describes a method of preparing a "soluble oil," which after one year's observation, shows signs of becoming a very efficient and convenient remedy. Messrs. J. H. Hale, of South Glastonbury, and Barnes Brothers, of Yalesville, who tested it in an experimental way last year, report favorable results. The formula, which consists of two parts, follows:

1.—THE EMULSIFIER

Carbolic acid (crude liquid 100%) . . . 2 quarts
Fish oil (pure Menhaden or whale oil) 2½ quarts
Caustic potash (granulated) 1 pound

Heat to 300° F., remove from the fire and immediately add

Kerosene 3½ quarts
Water 5½ quarts

Very serious difficulty has been experienced in getting materials of the proper grade. This is especially true with regard to the local dealers who are not familiar with the requirements and who are likely to substitute "something just as good."

The emulsifier may be made up in any quan-

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