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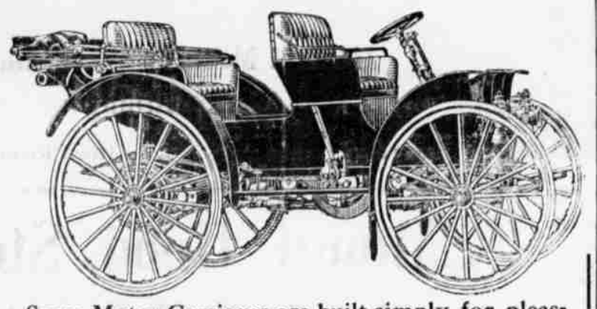

Some Motor Carriages are built simply for pleasure and service on smooth pavement. The I. H. Auto Buggy is built for general utility and service on all kinds of roads. A good hill climber with a good clearance will go anywhere a team and wagon will go. Tire trouble and expense almost entirely eliminated. It is sold from permanent stock through established trade channels, and in case of accident or damage repairs can be had in a few hours, which is not the case where machines are sold and delivered from Eastern houses who do not have a permanent stock of machines and extras where they can quickly be reached in case of need. I. H. C. Auto Buggy in stock and for sale by

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LIME-SULPHUR USED FOR APPLE SCAB

Editor Glacier:—Knowing that many of your readers are interested in the work the Oregon Experiment Station is doing in the Hood River Valley, I submit the following for their consideration.

Two years with the Lime-Sulphur solution at the Station, having proved its value as a fungicide, especially for the control of Apple Scab. Prof A B. Cordley established demonstration sprayings on a commercial scale at Hood River, the orchard used for this purpose being "Allenhurst" Dr. Stanton, prop.

The progress of the work has been mentioned in former issues of this paper and all we can say now about the result of this season's work is that Lime Sulphur has again demonstrated its fungicidal value by keeping the foliage free from scab. The result of the previous year's work was given in the September issue of the Better Fruit and the information will again be available, together with the results of this season's work, both at Hood River and Corvallis, in a forthcoming bulletin.

The point to be emphasized now is the excellent opportunity the apple growers in Hood River Valley have for stamping out apple scab or at least of bringing it under control.

Those familiar with the life-history of the fungus causing apple scab know that it passes the winter as a saprophyte on the decaying apple leaves and that these leaves are the source of the spring infestation. It is evident, then, that if every scabby leaf is destroyed between now and spring, there will be no scab next year.

Although climatic conditions this year were rather unfavorable for the development of the fungus, observations which have been made, indicate that there are few orchards in the valley that do not contain the fungus on the foliage. This is especially true of the Newtown. The writer has been able to find but few Newtowns trees that do not bear infested leaves.

The stamping out or control of the fungus can probably be best accomplished by one of the following methods.

The first and rather costly method is that of raking and burning the leaves after they have fallen from the trees. The second and probably equally effective method is to plow the leaves under as deeply as possible.

Either of the above methods will require the concerted action of all the growers and should be practiced several consecutive years. As such concerted action is not likely to prevail, it will fall to the individual grower to insure his crop by the proper use of fungicides. This can be done most effectively and cheaply by the use of a fall application followed by one or two spring applications as the leaves are unfolding. If the spring be wet and favorable for the development of the fungus, more applications should be given.

With the beginning of the fall rains, the scab colonies that were held more or less in check by the dry summer weather, again become active and spread the infection among the leaves. It is this fall infestation that serves largely to carry the fungus through the winter.

The fall infection can be checked by applying either Bordeaux or Lime-Sulphur as soon as the fruit is gathered. The Station has begun the demonstration spraying for the coming season by using Lime-Sulphur, diluting the 32 degrees Beaume stock solution 1 to 12. This will give a spray testing about 1.04 sp. gr. and which will not only control the scab but will destroy all exposed Anthracenose spores and the San Jose Scale as well. It should also have detrimental effect upon the Green and Brown Aphis and their eggs. The use of Lime-Sulphur for this purpose, however is still somewhat in the nature of an experiment and we hope to give more definite information next year.

Another point to be investigated the coming year is the time the perfect stage of the apple scab fungus matures. The date the spores are set free and become capable of infesting the young apple leaves in spring probably varies with the locality and season, but if the date can be approximately determined for Hood River valley, it may serve to lessen the work necessary for scab control.

F. L. Griffin,
Asst. in Plant Pathology, Oregon Experiment Station.

Good Cough Medicine for Children and Grown Folks, Too.

"We could hardly do without Chamberlain's Cough Remedy," says Mrs. Flora Despain of Bloyd, Ky. "I found it to be so good for the croup and have used it for years. I can heartily recommend it for coughs, colds and croup in children and grown folks, too." The above shows the implicit confidence that many mothers place in Chamberlain's Cough Remedy, a confidence based on many years' experience in the use of it. No one need hesitate to use this remedy for it contains no chloroform, opium or other narcotics and may be given to a child as confidently as to an adult. For sale by all dealers.

Down in the Grand valley country of Colorado the schools have been closed for a couple of weeks in order that all hands could help save the apple crop from the frosts.

Forced Into Exile.

Wm. Upchurch of Glen Oak, Okla., was an exile from home. Mountain air, he thought, would cure a frightful lung-racking cough that had defied all remedies for two years. After six months he returned, death dogging his steps. "Then I began to use Dr. King's New Discovery," he writes, "and after taking six bottles I am as well as ever." It saves thousands yearly from desperate lung diseases. Infallible for coughs and colds, it dispels hoarseness and sore throat. Cures grip, bronchitis, hemorrhages, asthma, croup, whooping cough. 50c and $1.00, trial bottle free, guaranteed by Chas. N. Clarke.

Mr. Levi Clarke, left last Thursday for Los Angeles where she will spend the winter.

A Broken Back.

That pain in your back caused by lumbago, stiff muscles or a strain is an easy thing to get rid of. Ballard's Snow Liniment cures rheumatism, lumbago, sore and stiff muscles, strains, sprains, cuts, burns, bruises, scalds and all aches and pains. You need a bottle in your house. Sold by Chas. N. Clarke.

J. W. Vandewater, of New York, has been in the valley for the past week or so investigating apple lands.

Consumption Statistics

prove that a neglected cold or cough puts the lungs in so bad a condition that consumption germs find a fertile field for fastening on one. Stop the cough just as soon as it appears with Ballard's Horehound Syrup. Soothes the torn and inflamed tissues and makes you well again. Sold by Chas. N. Clarke.

From nursery direct to the planter, the world's standard trees (Stark Trees) are now sold at

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In addition to giving this liberal discount, we also prepay freight to any point in the United States, on orders amounting to $10 or more, box and pack shipments without extra charge, most nurserymen make extra charges for boxing and packing, guarantee safe arrival, give generous premiums and assure every customer complete satisfaction.

Why We Make This Offer

Heretofore Stark Trees have been sold through salesmen, to whom we have paid a commission for sending us your orders. We have now discontinued selling through salesmen and are dealing direct with the planter in the irrigated valleys and orchard regions of the west. Thus the commissions formerly paid are saved—and given to you.

Our Catalogue-Price-List Is Our Only Salesman

in this state and it is a top-notch salesman too—better by far than most men salesmen. Every question you could ask, it will answer, and the answer will be correct—not a guess. Every variety in all classes is fully described, strong and weak points are pointed out—(everything is not listed as "best" as is the case with most nurserymen's literature). Following each variety is a key indicating the section of the country where experience has proven that variety will succeed.

This book contains accurate and valuable information on methods of planting, fertilization, cover crops, planting and care of trees, suggestions for spraying, pruning, etc., etc. Over 150 illustrations from actual photographs are within its pages.

You could not ask for a better salesman than is our catalogue-price-list. With it in your hands you can order more successfully, conveniently, and with better results than you could by talking to the best informed nursery salesman. Send for it today.

Have You Planted Stark Delicious?

If not make it the first and biggest item on your next order—you'll never regret it. Delicious is the most wonderful apple known to horticulture for quality, keeping qualities and selling value. This year at the sale of the Wenatchee Valley Fruit Growers' Ass'n (Washington) Delicious brought $3.00 per box f. o. b. there (the present market value is $ 4.00), while Spitzenburg brought only $2.50, Winesap $2.25, Jonathan $1.90, Black Ben $1.75, (now $2.00 —selling with Jonathan), Baldwin $1.15, Ben Davis $1.40, Gano $1.50, etc.

Luther Burbank, Wizard of Horticulture, says: "Delicious is a genuine finer apple than all the world. It is the best in quality of any apple I have so far tested"—and Luther Burbank knows.

Delicious Brings $2,000 Per Acre

100 seven year old Stark Delicious apple trees in the Bailey Orchard, Chelan Co., Washington, earned $2,000 for their owner last year and when prices were low—or an average of $20 per tree for one season's crop.

Delicious is today making more profits—big profits, for the long-headed, far-sighted orchardists who have planted it than any other variety. Write for "The Apple Stark Delicious" a booklet giving its full history and the opinions of the world's greatest horticulturists and successful orchardists. It will convince you. Last year we sold 1,250,000 trees of Delicious alone and could have sold another ¼ million had we had them. Planters now-a-days do not buy a variety at that rate unless there's a reason. And there is one—send for the booklet.

Stark King David Apple

You should plant it along with Delicious—plant it largely—you'll never regret it. It's a money maker, and a big one. It has highest quality, is a long keeper, very hardy, and has beautiful color. Sells at highest prices. Many planters think it better than Delicious.

"In my opinion King David will surpass Delicious as a commercial apple. It is fine as silk."—Rev. T. H. Atkinson, Entiat, Washington.

Was in Mr. Olds' orchard last week. His King David 3-yr. old trees will bear quite a lot of fruit this year. I consider them far ahead of Jonathan—the fruit is larger, has better color and flavor and is a better keeper.—D. J. Hayden, Chelan Co., Washington.

King David stood 25 degrees below zero last winter without injury while Ben Davis suffered severely.—R. G. McDougall, Chelan Co., Washington.

King David, a very rich red, makes a most beautiful apple. Hangs on the tree well, equal to Ben Davis and just as productive; quality is equal to Spitzenburg; picked three boxes from one scion grafted on Ben Davis. It is the finest apple you have for this part of the country; the most beautiful apple grown; can't help but sell anywhere, and ahead of all others. Have heard nothing but King David all this season. Have had to date fifty-two parties at my place to see these apples.—F. Dando, Chelan Co., Washington.

Include King David in your next order. You'll never regret it and will want more when you see its magnificent fruit.

Stark Early Elberta Peach

One of the good things you can not afford to overlook. It is winning golden opinions from experienced fruit men the country over. Better quality than Elberta and ripens ten days to two weeks earlier, reaching the markets when all other good peaches are scarce and thus commanding high prices. A great shipping peach, surpassing Elberta.

I believe Early Elberta is one of the best varieties introduced since the first Elberta came. In Early Elberta one has all of the good qualities of Elberta, and the additional feature of early ripening. When this is taken into consideration, and when it is planted along with the original Elberta, much of the strain and congestion which comes with peach harvest will be greatly reduced. The shipping season will be lengthened. —E. H. Favor, Ass't Horticulturist, Davis Co., Utah.

Having tested its shipping and keeping qualities thoroughly, without doubt it is the most valuable addition to the commercial peach list introduced in recent years; an excellent shipper and as a keeper it has no rival.—L. Marsh, Hort. Inspector, Davis Co., Utah.

J. H. Hale (The Peach King) wrote me that he took some Early Elberta home from Georgia and that they kept nearly twice as long as Elberta.—Dr. Sumner Gleason (Originator of Stark Early Elberta) Davis Co., Utah.

Early Elberta is all right. Two trees bore fine, yellow, spicy fruit and although not a full crop, it was more than was produced by 50 Elberta trees in the same orchard. Ripened with Carman.—E. H. Riehl, (Ill. Experiment Station) Pres. Alton Horticultural Society, Madison Co., Ill.

Stark Early Elberta is worthy of your utmost confidence—plant it largely and reap the harvest of profits which will surely follow. The true Stark Early Elberta can be had only of us. We purchased the exclusive propagating right from the originator, Dr. Sumner Gleason.

Other Western Varieties

The success of an orchard is dependent upon the judgment displayed in the selection of varieties—the profit paying kind. And profit in fruit growing means quality. Quality and color are the two things that the great fruit consuming public pay their money for. That's certain—you can't deny it.

Increase your orchard profits—do it by planting the splendid tested special sorts of Stark Trees. Begin now—don't wait until next season. Plant now and be that much nearer a big profit paying crop than you would be by waiting 6 months or a year.

Here is a brief list of varieties highly adapted to western conditions—the kind that will make a model orchard which will yield profitable returns.

Apple	Peach	Grape
Senator	Muir	Mission
Banana	Alton	Worden
Jonathan	Elberta	Niagara
Newtown	Lovell	Campbell
Black Ben	Krummel	Flame Tokay
Spitzenburg	Red Bird	Stark Eclipse
Rome Beauty	Crawford	Moore Early
L. Raspberry	Levy Late	White Muscat
Stark Delicious	Philips Cling	Stark K. Philip
Stayman Winesap	S. E. Elberta	Blk. Cornichon
Stark King David	June Elberta	Thomp's Seedless
Cherry	**Apricot**	**Pear**
Bing	Royal	Anjou
Lambert	Tilton	Bartlett
Royal Ann	Blenheim	Lincoln
Montmorencies	Moorpark	Comice
Royal Duke	Colorado	Winter Nelis
Black Tartarian	Wenatchee	Easter Beurre

Our stock of the above and all other varieties worthy of propagation is complete in every sense of the word—all sizes in one and two year but only one quality—"Stark Sterling Quality."

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If you contemplate planting an orchard in either a large or small way, let us assist you. Our Special Service Department will advise you as to best varieties for commercial or home orchard, best methods and time of planting in your locality, spraying, care of trees, and other valuable information. This service is given without charge and will in no way obligate you to buy of us. The department is maintained to promote greater interest in the planting of the best and most profitable varieties of fruit known. Address

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