

A Business Should be as Big as Its Job

If bigness is of benefit to the public it should be commended.

The size of a business depends upon the needs which that business is called upon to serve. A business should be as big as its job. You do not drive taxis with a pilot-driver—or piles with a tack-hammer.

Swift & Company's growth has been the natural and inevitable result of national and international needs.

Large-scale production and distribution are necessary to convert the live stock of the West into meat and by-products, and to distribute them over long distances to the consuming centers of the East and abroad.

Only an organization like that of Swift & Company, with its many packing plants, hundreds of distributing houses, and thousands of refrigerating cars, would have been able to handle the varying seasonal supplies of live stock and meet the present war emergency by supplying, without interruption:

First—The U. S. soldiers and the Allies in Europe by shipping as much as 800 carloads of meat products in a single week!

Second—The cantonments in the United States.

Third—The retailers upon whom the American public depends for its daily supply of meat.

But many people ask—Do producers and consumers pay too much for the complex service rendered?

Everyone, we believe, concedes the efficiency of the Swift & Company organization—in performing a big job in a big way at a minimum of expense.

Swift & Company's total profit in 1917 was less than 4 cents on each dollar of sales of meat and by-products. Elimination of this profit would have had practically no effect on live block and meat prices.

Do you believe that this service can be rendered for less by any other conceivable method of organization or operation?

These questions and others are answered fully and frankly in the Swift & Company 1918 Year Book sent free on request.

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Swift & Company, U.S.A.

"English as she is Spoke." "This ain't where we want off at." "It was a well-dressed, attractive-looking young woman, and they were in a street car which was about to come to a stop." "This ain't where we want off at." Dayton (Ohio) News.

When a woman cuts a man's acquaintance she looks diggers at him.

One Instance.—Oh, my dear, look what bargains I've got. They sold such cheap things at Takem & Breakem's today.

We save our money because we are economical. Other folks save theirs because they are stingy.

Canada made me Prosperous

—that's what thousands of farmers say, who have gone from the U. S. to settle on homesteads or buy land in Western Manitoba, Saskatchewan or Alberta is especially attractive. She wants farmers to make money and happy, prosperous homes for themselves by helping her raise immense wheat crops to feed the world.

You Can Get a Homestead of 160 Acres Free or other lands at very low prices. Where you can buy good farm land at \$15 to \$30 per acre that will raise 20 to 45 bushels of 92 wheat to the acre—it's easy to become prosperous. Canadian farmers also grow wonderful crops of Oats, Barley and Flax. Mixed Farming is fully as profitable an industry as grain raising. The excellent grasses full of nutritious and high quality either for beef or dairy purposes. Good schools and churches, markets convenient, climate excellent. Write for literature and particulars as to reduced railway rates to Dept. of Immigration, Ottawa, Canada, or to:

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One working hard with hands and feet for low pay or one sitting at a desk for a good salary? IT IS UP TO YOU. The electrical field today demands thousands of skilled workmen and high wages. You can teach you at your home during your leisure hours. THEORY AND PRACTICE OF ELECTRICITY necessary to fit you for any of these positions. There was never in the history of this country a better opportunity for the live man to make money than now. No matter what his natural ability or ambition, the man must be specially trained and instructed. That is the way to success. PRACTICAL INSTRUCTION BY A PRACTICAL MAN. We give our students the personal attention and careful instruction of a Practical Man who knows exactly the results of electricity and the practical side of electrical work that you need to regard yourself as a specialist in your own line.

NO HIGH SCHOOL EDUCATION NECESSARY. Understanding of the English Language and a real desire to learn. We will do the rest. Write today for our free book on Electricity that opens the door to Opportunity. Do It Now. BURGESS ELECTRICAL SCHOOL, YORK BURGESS, 547 E. 42nd Street, CHICAGO, ILL.

REPORT ON DUSTING IS MADE BY M. A. C.

Experiment Station Obtains Variable Results From Use of Powder on Apples.

FIND IT IS TIME-SAVER

Can Be Applied in Less Than One-Half Time Required for Operation of Spraying.

By W. C. DUTTON.

Experiment Station, Michigan Agricultural College.

East Lansing, Mich.—The use of sulphur and arsenate of lead applied in the form of dust as a substitute for the standard liquid sprays to prevent the most prevalent apple orchard troubles, such as scab (Venturia lancaeana), codling moth, bud moth, leaf-roller and others, has been developed to a considerable extent during the last three or four years. Experiments were

Comparative Cost of Dusting and Spraying.

Method.	Time per tree, one application.	Four applications.
Spraying (dilute)	2 1/2 minutes	\$0.25
Dusting (dilute)	1 1/2 " "	\$0.12
Spraying (concentrated)	2 " "	\$0.25
Dusting (concentrated)	1 " "	\$0.12

Accordingly begun by the college at Morrice, Shiawassee county, in 1915, and in other places in 1916 and 1917 to determine if possible the efficiency of dusts, the best formulae to use and to a limited extent the relative costs of this method under Michigan orchard conditions.

Materials Used. The sulphur used in this work was very fine, the manufacturers guaranteeing that 95 per cent of it would pass through a 200-mesh screen and some of that used in 1917 was finer still. The arsenate of lead was also exceedingly fine, one manufacturer stating that his product would pass through the finest screen obtainable. In some of the work mixtures were used which contained some inert filler or diluent such as gypsum or hydrated lime.

The dusting has all been done in direct comparison with the standard dilute lime-sulphur and arsenate of lead. What were the results?

In 1915 scab was not controlled very successfully, by either dusting or spraying. A large percentage of the scabby fruit was caused by late infections. The weather conditions were in general favorable for scab development after June 13. If extra applications had been made better control of scab would probably have been secured.

This brings out the occasional need for an extra treatment in seasons of frequent rains. The results at harvest showed the sprayed trees to have 10 per cent less of scabby fruit than the dusted trees. Other factors probably affecting the results in the dusted plot were laxer expense with the dusting method, a dustier soil for the dusting work and the application of dust from one side of the tree only.

In 1916, dusting failed almost entirely to control apple scab. The control of scab on the sprayed plot of Starks was very poor. This is possibly explained by the fact that the "pink" application was made before the blossom buds had all separated in the clusters. The control in the other sprayed plots was very much better than in the dusted plots. The period of infection were all in the early part of the season. In 1917 they were all late in the season.

The dusting method gave very satisfactory results in 1917. The results obtained on those secured in the sprayed plots. The season was like that of 1916 in that the infection periods were all early in the summer. The control of scab on the fruit was very satisfactory in most plots. The condition of foliage in the dusted plot at Muir was much better than on the sprayed trees because of the spray injury on the latter. At Belding there was little difference in the condition of the foliage of the two plots. At Morrice the foliage of the dusted trees was free

"BLACK LEG" IS MENACE Causes Much Loss to Potatoes in Michigan—Can Be Controlled.

By DR. G. H. COONS.

Experiment Station, Michigan Agricultural College.

East Lansing, Mich.—Of potato diseases which attack the Michigan potato grower, black leg has spread most rapidly in Michigan within the past two or three years perhaps than "black leg," a trouble which is widespread in the upper peninsula and seems to be spreading southward also in southern Michigan. Prior to the summer of 1917 it had been reported by a few localities in the southern peninsula, and then, in many instances, only in potatoes imported from northern localities. In the wholesale shipping of tubers into the state which took place in 1917 to supply seed tubers, however, black leg was introduced into a great number of southern Michigan counties, where it has been known to produce losses of from 25 to 75 per cent of the crop in the field and to cause serious rotting of tubers in storage.

It is not known whether the germs

from injury but showed some scab, while on the sprayed trees there was no scab but some spray injury.

It is not possible to tell just why the results with dusting were so much more satisfactory in 1917 than in previous years. The success may have been due to one or all of the following factors—more efficient application of dust, finer materials or more timely application with relation to infection periods.

Better results were obtained at Morrice and Muir, where much of the dusting was done when the trees were with either rain or dew than at Belding, where the trees were mostly dry when the material was applied. Several growers, however, have secured satisfactory results by dusting when the foliage was dry.

It is very doubtful if the extra application of dust, made in July had any beneficial effect as weather conditions were not favorable for scab infection before the August application.

Comparative Cost. Dust can be applied in less than one-half the time required for the actual operation of spraying, exclusive of time necessary for rolling sprayer tank. The cost of material for dusting has been more than for spraying. A comparison of the time required per tree and total cost of labor and material for one and four applications is shown below:

Method.	Time per tree, one application.	Four applications.
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Dusting (dilute)	1 1/2 " "	\$0.12
Spraying (concentrated)	2 " "	\$0.25
Dusting (concentrated)	1 " "	\$0.12

The difference in the total cost of the two methods for extensive commercial operations would undoubtedly be smaller than is shown here.

Insect Control. No data was gathered about insect control because there has never been enough insect injury on the untreated trees to give an accurate check as to the efficiency of the dust for this purpose. Experiments in New York have shown that the leaf-roller and codling moth can be controlled there by the dusting method. This work leads us to believe that the dusting method will control the insects in Michigan orchards.

Conclusions. This summary is intended simply to show the progress of the experiments that have been conducted for the last three years with the sulphur dusts to definite conclusions are intended to be drawn at this time from this work as the use of dusting material as a substitute for liquid mixtures is still in the experimental stage. If this method of control continues to develop as rapidly as during the past few years, it will prove of great value to many apple growers, largely because of the ease and rapidity of application.

Suggestions. For the benefit of fruit growers who may care to use the dusting method at this time, a few suggestions may prove helpful.

A duster of sufficient capacity and power should be used. Efficient work cannot be done with an undersized machine.

Special dusting sulphur dusts are usually used. The ordinary grades of sulphur are not satisfactory.

Home-mixing of materials should not be tried unless a special mixing machine is used.

Applications should be made from two opposite directions and preferably where there is not any wind.

Unlike spraying, dusting can be safely done when the foliage is wet.

More applications of dust than are usually made of the liquid sprays will probably be desirable. However, the number will depend largely upon weather conditions. The applications of dust should be made before scab infection periods. Cool and rainy weather is favorable to scab development.

The horticultural department also conducted a dusting experiment with peaches in 1917 but no definite conclusions could be drawn from the results of this work as there was so very little injury by insects or diseases in the untreated plots. This work indicated, however, that peaches can be dusted safely and that peach scab and brown rot can be controlled by dusting.

Sound seed tubers, free from rot, wounds, bruises, scab or other blemish, dusted in either formaldehyde or corrosive sublimate, will give a crop practically free from black leg. In the season of 1917, observations which were made in the upper peninsula showed that seed tubers, carefully sorted and treated gave less than one-tenth of one per cent of black leg. Seed tubers from the same car, planted without care, gave a field with 75 per cent black leg.

Black leg plants (including such tubers as are formed) wherever found in the field should be carefully pulled, carried from the field and destroyed.

Corn and Alfalfa. Corn and alfalfa form the basis of successful live stock and poultry feeding. No other combination of feeds is so economical in the production of beef, pork, butter and eggs.

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When you know you have a heart, it is time to watch your stomach.

Palpitation and other signs of "heart trouble" usually mean—indigestion, produced by food poisons that irritate every part of the body—heart included.

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"If you are responsible for the health of your family," says Peterson, "I want you to get a large 30 cent box of Peterson's Ointment today."

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"I had 30 running sores on my leg for 11 years. I tried in three different hospitals. Amputation was advised. Skin grafting was suggested. By using Peterson's Ointment," Mrs. F. E. Root, 27 Michigan Street, Chicago, Ill., writes.

"I had several filled charges prepaid by Peterson Bros., Buffalo, N. Y. Adv."

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W. N. U. DETROIT, MO. 19-1918.

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Dr. Wm. A. Santelman
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