"Stories of Success"

What are the young folks, the boys and girls of 17 and 18 years to do? What Trade? What Business? What Profession?

"Stories of Success" is an inspiration book for those who wish to answer that question in a practical way.

It tells of boys and girls who have decided to enter "the profession of business" and have done well.

-It is written by one whose life-work has been the practical training of young people.

A limited number will be distributed free to parents, or to the boys and girls themselves.

A. M. Kennedy 9 Adelaide St. E. Toronto

How to Build a Telephone Line

There is nothing particularly dim-cult about building a rural telephone line. To build a telephone line should not be much more trouble than to build a good wire fence. The main idea is to follow certain simple rules and to exercise a reasonable amount of care in its construction, and the telephone line should prove entirely There is nothing particularly diffi-

The route over which a telephon system is to run, must be the first consideration. The shortest, but at the same time, the easiest route should be chosen. The shorter road is not albe chosen. The shorter road is not always the cheaper. Sometimes by going over a great distance that have been been been been the control of avoided. It is important to obtain ene good will of the property owners ad-joining the telephone line. Many ob-stacles to the success of the system will be overcome if this is tactfully attended to, as you are depending upon these same these same property owners for the support of the line.

It must be decided dennitely whether you are to build metallic or ground-ed circuits. In a metallic circuit there is a complete circuit of wire outgoing and returning over each line. A grounded circuit is one of but a single wire. The return side of each circuit is through the ground. Thus the ground is common to one side of the ground is common to one side of all circuits. A grouneed circuit is cheaper to construct. In many cases it will be just as satisfactory as a metallic circuit. Where there can be no interference due v the noise from any electric light or power currents, when not paralleled by other ground-ed telephone circuits for a great dis-tance, and when not longer than 25 or 30 miles, the grounded circuits will prove satisfactory. When any of these prove satisfactory. When any of these disturbances are apt to occur, the me-tallic circuits are far the better. It is as well to anticipate these disturb-ances and to build metallic lines at the ances and to build metallic lines at the outset. If the metallic circuit can not be afforded at first, make ar-rangements toward that end and when necessary in the future the change can be made.

the number and sizes of the poles required. The number of poles per mile depends largely upon the number of wires that are to be carried. For 10 or less wires, set the poles about 30 per mile, for a greater number of wires about 35 poles a mile. The longer the pole the greater will be the span permissible. The aborter poles pan permissible. The aborter poles pan permissible. The aborter poles pan permissible. The shorter poles pan permissible. The aborter poles pan permissible. The aborter poles pan permissible. The shorter poles for the poles of the poles o the number and sizes of the poles re-

When but two wires are to be carwhen out two wires are to be car-ried, they may be attached to the poles by means of side blocks or brackets. If more wires are to be strung, or if the adding of addition-al vircuits in the near future is con-templated, crossarms should be used. templated, crossarms should be used. A pole with a top four of five inches in diameter will be satisfactory when side blocks are used. No pole with a top less than aix inches and preferably larger should be used for cross arms.

If you have the same than a continuous continu bor and the difference in price is little. With extra room on the arm, additional circuits may easily be added at any time. Care should be taken to select poles large at the butt, as otherwise they will rot out soon. In otherwise they will rot out soon. In the processing the sound that you are building poles remember that you are building poles remember that you are building to the processing them, they are the processing them, they are the ground at least 20 feet at the point of the lowest age. At railroad crossings, the wire should clear the ground at least 20 feet at the point of the lowest age. At railroad crossings, the wire at the lowest point must clear the top of the rails at all times by 22 or more feet. When crossing cherotal place a pole as near as possible to the crossing on each side; then in case as the wire breaks, it will pull back out of the way and will not tangle up any team. The same precautions should be observed at railway the consideration of the processing that the processing the control of the processing that the processing the control of the processing the control of the processing the processing that the same processing the process crossings, a pole being placed as close as possible to the right of way at each

angelents toward that end and when eccessary in the future the change an be made.

The route being located, estimate all around the pole. If the hole is too

narrow, the earth cannot be properly tamped and the pole will work loose. The holes should range in depth from four feet for a 16 ft. pole, to six feet for a 35 ft. pole.

White cedar, chestnut, or tamarack are the best material for poles. The straightest poles orly should be chosen and those free from wind breaks and and those free from wind breaks and poles of the pole and the poles of the poles of the poles of the poles of the poles and the poles of the gained and all fixtures attached. The top of the pole should be roofed at an angle of about 60 degrees and the ridge should always be in line with the lead of poies. Gains for the cross arms should be cut as shallow as pos-sible not to exceed ½ of an inch deep. It is well to paint the gains and the roof of the pole to prevent rotting. Drill a ½ inch hole; after the cross each gain for the cross arm bolt. By means of ½ inch bolts, faging the cross means of % inch bolts, fasten the cross arm tightly in the gain, using a square washer under the head and alsuader the nut. Have the nut on the cross arn side of the pole. There should be enough gains to accommodiate at the state of the pole. date all the cross arms that are to be put on in the future. Attach the two put on in the future. Attach the two cross arm braces to the arm by means of 3-8 x 3\% inch. carriage bolts. Adjust the cross arm so that it will stand at right angles to the pole and fasten the brace by means of a $\frac{1}{N}$ x 3 inch bolt driven through the hole in each brace into the pole. It is best to have each arm completely equipped with insulator pins. These pins are driven in the holes provided for them and are hold in position by a six-penny nail in the holes provided for them and held in position by a six-penny nail driven through the arm and pin from the side. Arms should be 18 or 20 inches apart between centres. The

the side. Arms should be 15 or 20 inches apart between centres. The top arm should be 10 inches below the ridge of the pole.

If the pole is to be provided with side blocks, these should be attached before setting the pole, though it is not absolutely necessary, as they are not absolutely necessary, as they are more easily attached than arms after more easily attached than arms after the poles are set. If there are to be two side blocks, one should be on each side of the pole. Place one about eight inches below the ridge of the pole on one side, and the other about 18 inches lower down on the other side, On curves both side blocks should be on the outside of the curve on the same side of the pole. Fasten the side blocks wit two nails, the upper should be a 50-nenny and the upper should be a 50-penny and

the upper should be a 50-penny and the lower a 20-penny nail.

Every tenth pole should be provided with a lightning rod of No. 9 steel wire. This wire is tightly stapled to the pole. The upper end should 'ex-tend above the ridge of the pole, five or six inches; the lower end should be fastened to the butt of the pole, leav-ing several feet coiled up, so as to provide a good sized surface.

(To be Continued near week.)

Our Legal Adviser

SUBSTITUTION OF SEED.—I planted half an aere of what I thought to be Aberdeen turnips. It now turns out to be rape. Can I make the dealer from whom I bought the seed pay me for my loss, and how shall I go about it? Will it be necessary for me to engage a lawyer? The dealer says a seedsman sent him the package from which he sold me the seed payer of the seed of the control of the seed of

You are entitled to recover damages for failure of the dealer to supply the kind of seed you ordered whether the mistake was his own or that of the person from whom he purchased but the measure of damages is simply the difference in value between the secondered and that which was furnished and you are not entitled to recover in addition the profit you would have probably made if the seed had been what you had ordered.

Pigs given away, for clubs of sever new yearly subscriptions. Write Circulation Department, Farm and Dairy, Peterboro.



"Do you know that a wooden roof equipped with lightning rode costs more than a Metallic roof."

THE PHILOSOPHER OF METAL TOWN.



Now is the Time to Repair the Roof

Harvest is over-winter and storms will soon he here—you have a few weeks of spare time while the weather is fine and comparatively warm. This is your opportunity to repair the roofs of your barns, houses and buildings. Did you ever think how expensive this re-

pairing, necessary every year with wooden roofs, is, not alone in material but for labor? It will pay you to cover your buildings with a durable, fire-proof roof of

"Eastlake" Metallic Shingles

They never need repairs—can be cheaply and quickly laid by yourself, and will last a lifetime. Roofs laid 25 years ago with "Eastlake" Shingles are weatherproof to-day. A roof covered with "EASTLAKE" STEEL SHINGLES is proof against lightning, wind, rain or snow.

A barn roofed with "EASTLAKE" METALLIC SHINGLES and sided with our Galvanized Corrugated Iron Siding, is absolutely protected from fire

Let us quote you on rat and mice-proof sheet metal lining for your granary, also send measurements of your barn and let us give you complete estimates of cost of roofing or siding, or both.



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October 7

Prepar wa 'tave a socioan, well dra to sow with a Would it be al right away an would you prefet till spring?—A.

To insure and the field in best plan wou with a shallow twice, disk havals during the or 25, then rib board plow, of first plowing. down and sow a thin seeding seed per acre. good tilth and would very using no nurse case you should until about the sow alfalfa seed rew with light weather is rain; about the end of be advisable to The catch is l



A Holstein Cow w

The cow here il Edmund Laidlaw & whose farm is e Dairy's Prize Farm, here shown, Hilb, years old, gave 49; day, and 12,255 lbs. three year old, in t ance, she gave 16,34 lbs. of butter fat.

the use of the nur return even if alfa —J.H.G.

Timot

lease give me so ning the growing & S. Co., Calgar Timothy (Phleus of the most extens in the world. It very varying con and climate. It w in the temperate in clay or clayey loam table matter and

The seed bed sho and the soil in good ing. It is usual to Any of the cereals any of the cereals crop, provided they thickly. Sow about usual amount of go down with timoth sown by itself, in we to keep the soil in guent apring cultive quent apring cultive. quent spring cultiva early in July.

ed should be s of 10 to 14 lbs. per as the only grass se sown somewhat less ove satisfactory. taken to get good sar