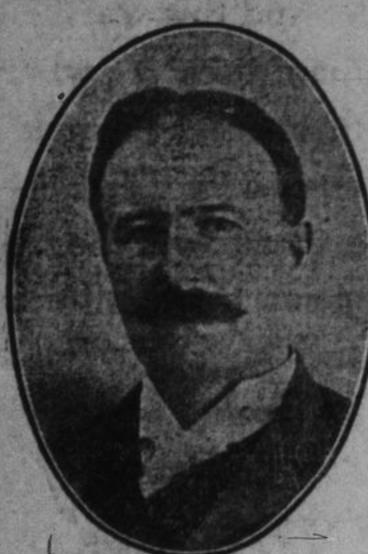
versities, and as yet are only in the

Agricultural Colleges

CANADA.

By F. C. HARRISON, Principal Macdonald Agricultural College.



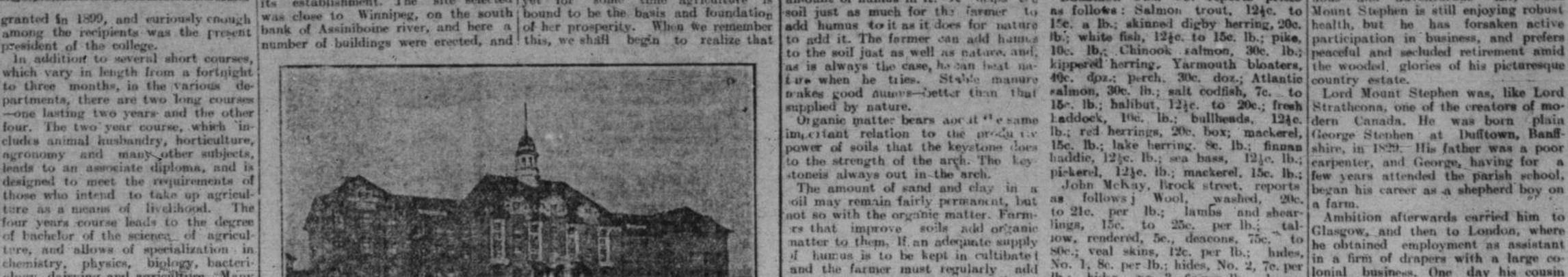
PRINICIPAL F. C. HARRISON, Macdonald College.

the now very apparent fact that in stitution. The now well-known farm- The courses given are similar to order to achieve success in agricul- era' institutes, women's institutes, those at Guelph, great emphasis being ture one must first of all obtain a cer- daily and poultry associations, near- placed on the two year course, as it tain amount of technical knowledge, by all owe their existence to the (m- is framed for young men who earnest- It is Said to Have Wonderful Water seemed to have been entirely neglact tari; Agricultural College; while the ly desire to improve their knowledge

granted in 1899, and euriously enough president of the college. In addition to several short courses,

which vary in length from a fortnight

to three months, in the various departments, there are two long courses -one lasting two years and the other four. The two year course, which includes animal husbandry, horticulture, agronomy and many other subjects, leads to an associate diploma, and is designed to meet the requirements of those who intend to take up agriculture as a means of livelihood. The four years course leads to the degree of bachelor of the science of agricultere, and allows of specialization in. chemistry, physics, biology, bactericlogy, dairying and agriculture. "Many boys who take the long course return to the farm, some few, however, become teachers, investigators and asstants in agriculture as well as agimitural editors and journalists. In addition to its educational activity the college has given a great! and needed impetus to agriculture in Up to the middle of last century, number of bulletins, issued by the in- the province.



studies at Truro may travel to Mac tions have been founded, one in the

donald College or the Ontario Agri- province of Alberta and one in that of

cultural College at its expense, to Saskatchewan. Both of these are de-

complete their course, and obtain a partments of the new provincial uni-

Manitoba appointed a commission to Thus we see that whereas thirty-six

enquire as to the advisability of es- years ago there was not a single in-

tablishing an institution where young stitution in Canada offering a course

farthers might study the science of agri- in the science of agriculture, to-day

culture, and receive such an education there are six, but when we consider

as would fit them to perform the that the population of the dominion

In 1902 the provincial legislature of stage of construction.

degree in agriculture.

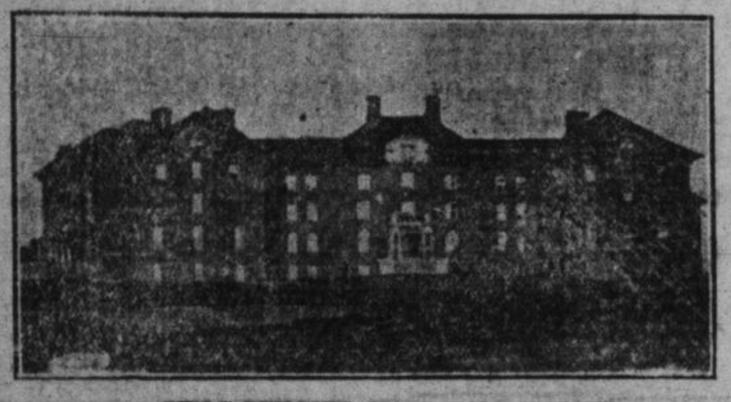
general; an impetus the magnitude of the college was formally opened in there is still which work to be done which can be estimated by the large 1906, by the lieutenant-governor of by the present colleges and as much by the colleges to come.

of agriculture, and intend to be direct-

MAIN BUILDING MACDONALD AGRICULTURE COLLEGE.

LA TUQUE.

clusion of their course. Some of sre not in the west alone, La Tuque the peculiar requirements of the west- on the Grand Trunk Pacific railway. denced by the provision of short example of this. Two years ago there courses in steam and gasoline engi- was not a house there. To-day, there neering for threshermen and farmers, is a handsome well laid out, well built In 1907, Sir William Macdonald, who town with two churches, a school, in everything that tends to increase mills, some very fine stores and a resithe prosperity of Canadian agriculture dent population of about 2,000. The established a magnificent college at Quebec bank opened a branch there a Ste. Anne de Bellevue, 20 miles west few weeks ngo, and in a very few days of Montreal, on the banks of the Ot. had \$60,000 on deposit. La Tuque is a tawa river. This institution differs divisional point on the Grand Trunk from those already established in that Pacific railway and will have the shops 't is composed of three schools; one for that division. It is also the ter or the teaching of agriculture, anoth- minus of the Tuque branch of the Lake er for instruction in domestic science, St. John division of the Canadian



GIRLS' BUILDING, MACDONALD COLLEGE.

theology, engineering and other arts source; and sciences; yet there was not a sincientific agriculture.

Between 1840 and 1850, however, thoughtful persons began to realize the state of allairs, with the reault that in addition to the in agriculture a committee of Ontario entirely to the education of men; but farmers was appointed to select the in that year, a women's department site for an agricultural college.

In 1874 the Ontario Agricultural branch of the college have been design-College was established. The functions | ed to give, by means of many lessons

ed. The result was that in 1874 al- | Entomological Society and the Fruit though there were in existence a num- and Vegetable Growers' Associations ber of schools for instruction in law, are deeply indebted to the same

The result of the formation of these gle institution at which a young man societies has been astonishing, for incould learn even the rudiments of stead of regarding the college as something quite without their sphere of interest, Ontario farmers have come to be proud of their local institution.

Up to 1904 the Guelph College, cation of several text-books it is familiarly called, was restricted was inaugurated. The courses in this

For twenty years there was only one

agricultural college in the whole of

Canada, but in 1893 the province of

Nova Scotia established one near

Truro. Short courses are offered in

care being given to fruit culture, in

view of the local interest in fruit

farming. Through the broad-minded

418

policy of the local government any

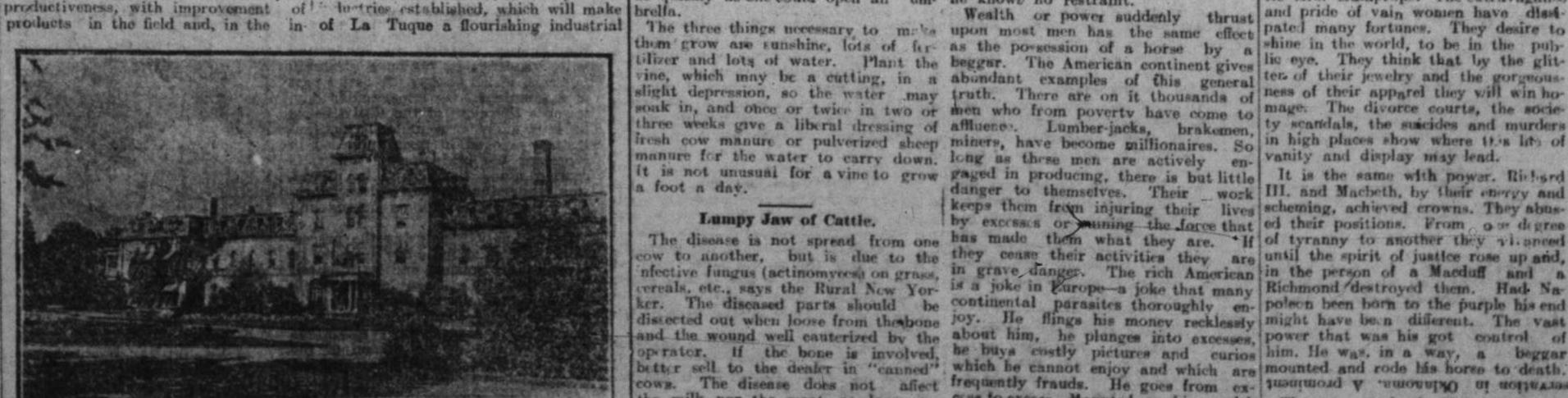


VIEW OF AGRICULTURAL COLLEGE BUILDINGS, TRURO, N.S. and a third for the training of | Northern railway, and the head of public school teachers. The benefits navigation of the River St. Maurice, he two-year-old could drive her accruing from the combination of the which is navigable for steamers for attle are one year old it oothers schools of domestic science and agri- seventy miles from La Tuque south them for a few days, but makes their culture are obvious and the idea of ward to Grand Piles, the addition of a school for teachers is But the principal advantage of L. flour to stop the blood and nothing Beggars mounted, run their horse to same tendency to ride a newly-acquirthat, as many teachers will be required Tuque is its water power. The River else, by the rural schools, an early sym- St. Maurice, at this point, a magnipathy for agriculture is useful, and will ficent stream half a mile wide, falls

stimulation of technical knowledge to dustries no less than ninety thousand the farmers' children, who will thus horse-power. This is only partially debe attracted to rural occupations. lion dollars on the buildings, equip- er, have built one of the largest sul-

enable them to bring the needed ninety feet, making available for in-

veloped, but already the Mesers. Brown After epending a sum of five mil- of Berlin, N.H., the owners of the powment, and endowment of Macdonald phite pulp mills in America, and in a College, Sir William presented the in- few days will be producing sixty tons stitution to McCitl University, of of sulphite pulp daily and a paper mill soms open. If at the right time you his head and rides so furiously that pear great ladies, leaders in society, which it now forms an important part. will follow in the near future. These some of the advantages which Mac- two industries will use only a very donald College hopes to assist in pro- small portion of the power, so that viding for Canada are, an intrease of there will, no doubt, be many other viding for Canada are, an increase of there will, no doubt, be many other as quickly as one could open an um- he knows no restraint.



BOYS' RESIDENCE, AGRICULTURAL COLLEGE, GUELPH.

ies of life.

are lead in two years to an asseniate fern Quebec. diploma, and in four to a degree in agriculture. The object of the domeseie science courses is to fit girls for the duties of home-making, while the Chicago Record-Heraid, . . school for teachers gives; a thorough treining to teachers by instruction and training in practice schools and in such subjects as manual training, nature study and household science,

College, two more agricultual

dustries of the farm and town, great- town. A large flow mill is spoken of, daily with tincture of iodine until who have risen from the ranks of the gang-boos. The politician who has never comfort and enjoyment in the home, to grind up the wheat to be brought they soften and can be freely opened, poor on whom wealth has but little er known power or wealth not uncoma better taught school for the children from Manitoba and Afherta by the Where the tumor is present without or no deleterious effect. It is merely monly is the most tricky legislator and a nobler sense of the responsibili- Grand Trunk Pacific, and as the level pus dissection is in order. grades (four tenths) of that road will The courses offered are of necessity carry grain at gates with which the very similar to those of the matter canal navigation cannot compete, this It is not profitable to fool away tions already mentioned. Short cours should be an ideal spot for such an time in coddling a poor tree. Yank es are provided in live stock, creal industry on a large scale, as it is also it out and plant a new one. It outs husbandry, horticulture and poultry in close proximity to the ocean steam- something, of course, but it costs fir ing; while longer ones embra ing lers at Quebec. La Tuque is evidently more in time and annovance to let such subjects as disrying, animal aus- destined to be one of the most im- it stay,-American Agriculturist. bandry, poultry farming and berient portant manufacturing towns in north-

Made Him Eeel Old. "What's the matter?"

Gips Fer

BY UNCLE JOSH.

highest functions of citizenship. The amounts to nearly seven millions of Decaying organic matter in the soil to \$3; Hungarian patent, \$2.90; oatment most amount empire-builders, celebracommission found the necessity for an people, and further, when we bear in is one of the most important ingredit and rolled oats, \$5.50 per barrel; corn- ted the eighty-first auniversary of his agricultural college to be great, and mind that in spite of the fact that ents. The natural method of improv- meal, \$1.90 to \$2; bran, \$20 to \$22 ton; birth at his beautiful Hertfordshire the desire of the agricultural classes | Canada is wealthy in mineral pro- | ing soil is to increase the amount of shorts, \$25; straw (baled), \$9; straw; home, Brocket Hall, near Hatfield, on for its establishment undoubted-and duets and may rise to great heights in humas in it. The farmer's method for loose, \$9; hay, loose, \$15; pressed, \$14 Sunday. in 1903 an act was passed calling for the world of business and commerce wearing out soil is to lessen the to \$15. its establishment. The site selected yet for some time agriculture is amount of humus in it. It helps Je Dominion Fish Co. reports prices nous and adventurous life, Lord to the soil just as well as nature, and, 10c. Ib.; Chinook salmon, 30c. Ib.; peaceful and secluded retirement amid as is always the case, he can heat ma- kippered herring. Yarmouth bloaters, the wooded glories of his picturesque ture when he tries. Stable manure 49c. doz.; perch. 30c. doz.; Atlantic country estate. makes good numes better than that salmon, 30c. lh.; salt codfish, 7c. to Lord Mount Stephen was, like Lord supplied by nature.

power of soils that the keystone does 15c. lb.; lake herring. Sc. lb.; finnan shire, in 1829. His father was a poor to the strength of the arch. The key haddie, 12 te. lb.; sea bass, 12 tc. lb.; carpenter, and George, having for a toneis always out in the arch. The amount of sand and clay in

oil may remain fairly permanent, but not so with the organic matter. Farmrs that improve soils add organic I humus is to be kept in cultibate t and the farmer must regularly add organic matter as that in the soil contantly diminishes.

The use of stable manure and the plowing under of crops or parts of rops are the farm methods of adding types of organic matter for the farmer to plow into his soil. -Home and Farm

Ruptured Pigs.

Male pigs valuable for breeding pur poses are frequently suptured crowding or pushing through the fence. When the scrotum has been ly identified with farming at the con- The railroad towns of rapid growth crowded full of intestines the case is a very hard one to treat, but a cure may be made if the breeder has sufficient ern provinces are catered for, as evi- 127 miles from Quebec, is a wonderful patience to carry the undertaking through.

The boar is thrown on his side, the intestines carefully pushed back into the abdomen and clamps fastened on has always shown the deepest interest bank, a sulphite pulp mill, two saw between the body and the testicles, er of eigars and eigarettes. King Peter him. These are screwed tight and allowed to remain that way until the testicles dough off. Although such an operaion makes it necessary to emasculate he boar, he would be of no use as a and he is still valuable as a feeder. few stitches in such operations, but with the cigarette. where clamps can be used the results are more satisfactory. Pigs wearing he clamps should be kept by them-

Dehorning Cattle.

them.-Farm Progress.

An Iowa farmer writing in the Homestead regarding the dehorning of cows says: I never have any cattle been reduced from \$2 to \$1.49." with horns. I raise all the natural amileys I can, and if any of them have horns they are sure to lose them in ovencber or the last of March before they are one year old. They should be deherned when the weather is cool and the flies are dormant. I have, however, dehorned a good many cows, and what first gave me nerve to deforn a big cow was because she gourad a two-year-old heifer. She was mad when I commenced to saw (1 always use the saw), and when I got through with her she started to gouge he he er again, but never touched her, as she was candal ng on a nove at least six inches long. Before night around the yard. In dehorning before entire after life more agreeable. I use

For the Gardener.

manure for the water to carry down, long as these men are actively en- vanity and display may lead. It is not unusual for a vine to grow gaged in producing, there is but little It is the same with power. Richard a foot a day.

Lumpy Jaw of Cattle.

nfective fungus (actinomyces) on grass, in grave danger. The rich American in the person of a Macduff and a cereals, etc., says the Rural New Yor- is a joke in Europe-a joke that many Richmond destroyed them. Had Naker. The diseased parts should be continental parasites thoroughly en- poleon been born to the purple his end dissected out when loose from the bone joy. He flings his money recklessly might have been different. The vast and the wound well cauterized by the about him, he plunges into excesses, power that was his got control of operator. If the bone is involved, he buys costly pictures and curios him. He was, in a way, a beggar better sell to the dealer in "canned" which he cannot enjoy and which are mounted and rode his horse to death. cows. The disease does not affect frequently frauds. He goes from ex- justimond v "smootspo of not affect frequently frauds. the milk nor the ment, so long as cass to excess. Mounted on his wealth! The woman who has been a servant the animal is me good fiesh and not he rides to the devil, to give the old often becomes the unkindest neistress, run down from an aggravated state adage its most common form. There the man who has used the pick and of the disease. Paint the lumps once are many exceptions. There are men shovel frequently makes the harshest

Orchard Economy.

Produce and Prices.

12c.; lamb, by carease, \$5 to \$6; veal, A MY 7c. to 10c. lb.; ducks, \$1.25 to \$1.50 AN each; turkeys, 20c. to 22c.; fowl, \$1 to \$1.50 per pair; spring chickens, 90c. to \$1 pair; butter, 25c. to 26c.; fresh LORD MOUNT STEPHEN IN HIS eggs, 18c. to 20c.

J. A. McFarlans, Brock street, refollows : Oats, 40c.; local wheat; \$1.10; buckwheat, 65c.; barley, 55c.; rye, 65c.; peas, \$1; yellow corn, 75c.; flour, bakers, \$2.80 to \$3; farmers', \$2.80 | Lord Mount Stephen, one of the fore-

as follows j Wool, washed, 20c. a farm. to 21c, per lb.; lambs and shear- Ambition afterwards carried him to lings, 15c. to 25c. per lb.; tal- Glasgow, and then to London, where natter to them, If an adequate supply low, rendered, 5c., deacons, 75c. to be obtained employment as assistant soc.; veal skins, 12c. per lb.; hides, in a firm of drapers with a large co-

Royalty and Tobacco.

numus to cultivated lands. While any cigar smoker, but in the privacy of the prosaic calling of a draper's asorganic matter is good, some is better his workroom at Buckingham Palace sistant for the more energetic and then others. Stable manure and restor- and Sandringham he liked a pipe. freer, life in a comparatively unknown ative or clover crops are the very best King George is also a cigar smoker, country. but he does not disdain a pipe, for which he formed a liking when he was to make Canada and established for an active naval officer.

The Czar of Russia contents himself known as it is deeply respected. In with cigarettes. Formerly the kaiser conjunction with Lord Strathcons, was an inveterate cigar and pipe then a struggling pioneer, he prospersmoker, but on the advice of his doctors he has almost given up the habit. In spite of his eighty years the construction of the great transcontin-Austrian emperor is fond of a pipe, ental line known as the Canadian

King George of Greece smokes quan-Victor Emmanuel is a moderate smok- in 1891 a barony was conferred upon of Servia prefers a pipe, a habit he tary school of Saint Cyr.

King Alfonso manages to ge through a fair quantity of cigars and fund. breeder in such a ruptured condition, cigarettes. His neighbor, King Manuel of Portugal, has not yet learned to ap-It is sometimes necessary to use a preciate a cigar, contenting himself

Neckwear Sale

"My daughter," said the old broker, selves to prevent others from injuring | "is that young man familiar with the way stocks drop during the summer "Yes, indeed, pa." hastened the pretty daughter. "Just the other day he

The Dollar Mark.

Washington Star.

ENGLISH HOME.

ports flour, feed and grain selling as Celebrates His S1st Birthday-Romartie Career in Canada of a Young Scotch Emigrant.

Although he has had a long, stren-

15c. lb.; halibut, 12 c. to 20c.; fresh Stratheons, one of the creators of mo-Organic matter bears and it 'e same haddock, 10c. lb.; bullheads, 124c. dern Canada. He was born plain im criant relation to the product lb.; red herrings, 20c, box; mackerel, George Stephen at Dufftown, Banffpickerel, 123c. ib.; mackerel, 15c. lb.; few years attended the parish school, John McKay, Brock street, reports began his career as a shepherd boy on

No. 1, Sc. per lb.; hides, No. 2, 7c. per lonial business. One day his cousin th.; hides, No. 3, 6c.per lb.; horse entered the shop and asked him to hides, hair on, \$3. give up the drapery business and go to Canada. The boy-he was then only twenty-had a wide vision even The late King Edward was a great then, and he consented to throw up

By this timely migration he helped himself a name which is as widely ed exceedingly, acquired banking and railway interests, and undertook the and smoking does not affect his Pacific railway, of which he became

tities, of cigarettes, which he usually fortune, gave largely to charities, and He subsequently made an enormous throws away half consumed. King in 1886 was created a baronet, while

contracted when he was at the mili-distributed for philanthropic purposes Among the large sums which he has are the following:

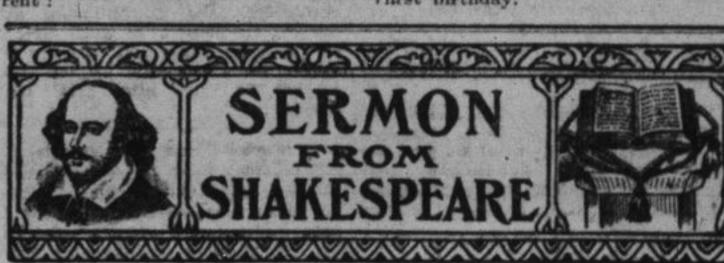
£200,000 to the King's hospital £40,000 for poor Scottish dergymen. £25,000 to Aberdeen infirmary, to

lear off a debt With Lord Strathcona built a hospital at Montreal for £200,000, and provided a further £160,000 for its maintenance

Gave £35,000 to the Aberlour or phanage, Scotland. £10,000 to the Queen's unemploy-

ment fund. Distributed £500,000 among his rebought a pink and blue one that had latives, preferring, as he said, to see that they enjoyed life now instead of

waiting until after his death. Lord Mount Stephen, who has on "Have you seen the Washington | many occasions been visited in his country home by King George and "Yes," replied the New Yorker, "It's other members of the royal family. a pretty tall building, but what's the received scores of congratulatory mesgood of it without any offices for sages on the occasion of his eightyfirst birthday.



It is interesting to watch the blos- In his changed circumstances he loses,

danger to themselves. Their work III. and Macbeth, by their energy and keeps them from injuring their lives scheming, achieved crowns. They abus-The disease is not spread from one has made them what they are. 'If of tyranny to another they with need cow to another, but is due to the they cease their activities they are until the spirit of justice rose up and, an instrument in their hands to on and the most shameless grafter. able them to accomplish greater? How are such beggars to learn to

farm or village to the city. He is take the bit in their teeth and how who was hamed after me has just cwt.; by carcase; cuts, 20c. to 22c.; steed they have won the race and run to death, will gain greater became entranced to be married. How live hogs, 3c. lb.; dressed hogs, 13c. kept their mount in good condition, strength by the wise use of spur and a lb., pork, 13c., by carcase; muston. Society gives many examples of the rein.

-Henry VI., Part III., Act I., Sc. 4. ed horse to death. King Cophetuas Shakespeare has used the old adage no longer go about the world wooing Beggars mounted run their horses beggar maids; princes rarely east their One vine that grows quickly is the to death" with powerful effect. The eyes on Cinderellas; Lords of Burleigh moon vine, botanically known as Ipo figure is an excellent one. The beg- do not in these times wed peasant The flowers are four or more inches along the highway, looking to charity are often attracted by pretty faces across and open early in the evening for his daily brend, is in a new and which are frequently masks of empty and remain open until the sun shines unaccustomed world, when he finds or tain minds. Suddenly raised from upon them. They are most fragrant. himself mounted on a powerful steed. poverty, such women often play a ludicrous part. In their efforts to ap-Wealth or power suddenly thrust and pride of vain women have dissithem grow are sunshine, lots of fer as the possession of a horse by a lic eye. They think that by the glittlizer and lots of water. Plant the beggar. The American continent gives lic eye. They think that by the glittlizer and lots of water. vine, which may be a cutting, in a abondant examples of this general ter of their jewelry and the gorgeousslight depression, so the water may truth. There are on it thousands of ness of their apparel they will win hosoak in, and once or twice in two or men who from poverty have come to mage. The divorce courts, the societhree weeks give a liberal dressing of affluence. Lumber-jacks, brakemen, ty scandals, the suicides and murders fresh cow manure or pulverized sheep miners, have become millionaires. So in high places show where this life of

by excesses or muning the force that ed their positions. From our degree

things in the future. But so, often ride? Common sense is all that is is it true that the new rich abuse needed. Wealth and power are extheir opportunities, that Shakespeare's cellent steeds; they carry far and swiftaphorism may be accepted as general- iv, but there should be a strong hard on the rein. They are sturdy beasts in There are abundant instances to a natural state, wild and untamed prove it. The youth comes from the and if the rider is cardless they wil dazzled by the splendor, the luxury, beyond control. A heart attuned to the amusements. The unaccustomed virtue, a soul serious of purpose and Kingston, June 25.-The market world is to much for him, and he unselfish need have no fear. Power and Carrots, 46c. to 56c. bag; apples, his life. On the other hand the city health,—good gifts from the Infinite to bage, (new), Sc. to 10c. head; onions, the country, occupying high positions. "Oh, nothing much."

But you look as if you had something serious on your mind."

Beat—Rest (local); carcase, 7c. to ance has made them all the stronger, sent like a king. His steed, in the and holding a tight rein on their journey through life, instead of being Meat-Rest (local); carcase, 7c. to ance has made them all the stronger, sent like a king. His stend, in the

MANITORA COLLEGE OF AGRICULTURE.

of the institution were stated to be and as much individual practice work,

twofold; in the first place it was to a good foundation in the different

educate young men in the science of branches of ordinary household work;

agriculture, and secondly, it was to such as cookery, sewing and laundry;

carry out the experiments in the inter- | and above all; an endeavor is made to ests of agriculture, and publish ac- awaken an interest in the wider ques-

counts of the results obtained. The tion of sound bodies, wholesome dwel-

lings and petty squabbles of political horticulture and live stock, special parties, but since the year 1887, when

The first agricultural degrees were student who has completed two years

college is situated on the outskirts of lings and real homes.

Guelph, amidst pleasant scenery and healthful surroundings—the precursor

For thirteen years its usefulness was greatly impaired by the foolish wrang-

it was alliliated with the University

of Toronto, its wonderful success has

more than fulfilled the hopes and

wisnes of the provincial legislature.

of its kind in Canada.

GUELPH AGRICULTURE COLLEGE. FARMERS VISITING DURING since the establishment of Macdonald'

JUNE