

Cultural Col-
tudents
ter.

ZAVITZ.
ty thousand young
en have enrolled at
ral College since its
About forty-five
regular agricultural
undred the winter
eight hundred the
se, and forty-seven
short courses in

r a survey has been
ct of securing the
occupations of the
red the College for
griculture, and also
part taken by the
tudents in the recent
exceedingly difficult
entirely complete,
valuable informa-

tions in the regular
are of students in
, and 3,937 are of
e ex-students 1,574
Diploma in agricul-
College at the end
urse, and of this
the B. S. A. degree
plete course.
ster in the office of
on now contains the
t. of the graduates,
ociates, and 62 per
sociates. Of the
ly in the regular
recorded, fully one-
recent war.

entered the regular
per cent. registered
ent. from twenty-
merican Union, and
forty-three other

es of the ex-students
ated in Canada, 9
es of the American
in thirty-one other
who received the
ent. are at present
nt. in twenty-four
ion Union, and 7 per
countries.

f the regular course
a 72 per cent. of the
er cent. of the
ed in the Province

est information re-
or four-fifths of all
regular course, 80
oma men, and 92
A. men are engaged

he forty-four years
1874 to 1917, in-
nto four periods of
ex-students of the
aged at the present
according to the fol-

agricul- tants other than farmers	Non- agricul- turalists
5	45
16	26
30	13
42	8

the land is fairly
more than 4 per
d from the general
t. It is interesting
ease in percentage
cultural work other
nds closely with the
t of those following
its.
ho are farmers, fill
ions of Premier,
e, Provincial Secre-
tation and Minister
e Ontario Govern-

cultural work other
ials in Government
nts, agricultural col-
esidents, professors
gricultural editors,
atives, members of
nt Board, cheese-
rs, drovers, farm

Horse Owners! Use
COMBAULT'S
Caustic
Balsam
A Safe, Speedy, and Painless Cure
The safest, Best BLISTER ever used. Takes the place of all liniments for mild or severe action. Removes all Bunches or Blemishes from Horses and Cattle. SUPERSEDES ALL CAUSTIC DE FIRMING. Impossible to produce scar or bluish. Every bottle sold is warranted to give satisfaction. Price \$1.75 per bottle. Sold by druggists, or sent by express, charges paid, with full directions for its use. Send for descriptive circulars. The Lawrence-Williams Co., Toronto, Ont.

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Offering includes one bull calf 18 months old and four younger bull calves. Inspection and correspondence invited.
JOHN D. HAYDEN
Cobourg :: Ontario
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ABERDEEN-ANGUS
The present string of young bulls for sale includes some classy herd bull prospects, winners themselves and sired by champions. If interested in Angus write your wants. Visitors welcome.
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Suffolk Down Sheep or Clydesdale Horses. Write:
James Bowman, Elm Park, Guelph, Ont.
ALLOWAY LODGE
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Angus, Southdowns, Collies
Choice bred heifers. Bulls 8 to 15 months. Southdown ewes in Lamb.
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Meadowdale Farm
Forest Ontario.
Alonzo Matthews **H. Fraleigh**
Manager Proprietor

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ABERDEEN-ANGUS
Do not miss the opportunity to secure some of the choice males and females of wonderful smoothness, quality and strain type that are being offered by
GEO. DAVIS & SONS
Erin, Ontario R. R. No. 1
Herd sire a son of Black Abbott, Champion Angus Bull of Canada. Write for particulars.

Sunny Side Herefords—Choice bulls and heifer calves, young cows with calves at foot. Reg. Shropshire rams ewe and ewe lambs. Inspection invited. All are priced to sell.
Arthur F. O'Neill & Sons, R.R. No. 2
Phone 27-12 Granton. Denfield, Ont.
DUAL-PURPOSE
SHORTHORNS
Present offering: Six young bulls, Reds and Roans, also a number of females. They have size, quality and breeding from good milking dams. Prices moderate. Satisfaction guaranteed.
CHAS. GRAHAM - Port Perry, Ontario

managers, etc. The 20 per cent. of ex-students of the regular course not engaged in agricultural work comprise clergymen, missionaries, veterinary surgeons, implement agents, flour millers, produce dealers, bakers, manufacturers, lawyers, etc.

In the recent war 788 students and ex-students of the regular college course in agriculture enlisted. In the service ranks there were over two hundred and thirty commissioned officers, including 2 Brigadier-Generals, 2 Colonels, 6 Lieutenant-Colonels, 15 Majors, 49 Captains and 159 Lieutenants. For service in the field at least 50 of the ex-students received decorations from the British Government, including the following: D.S.O., 1; M.C., 25; M.C. and Bar, 2; D.S.C., 1; D.C.M., 8, and M.M., 11. In addition to these a number of ex-students received decorations from the French and the Italian Governments.

No less than 107 O.A.C. men lost their lives in the war. In memory of these it is planned to erect a Memorial Hall on the College Campus.

In a previous survey made about twenty years ago for the first twenty-five years of the Ontario Agricultural College, it was found that 54 per cent. of the ex-students of the regular course were resident in Ontario, and of this number 71 per cent. were farmers.

It is learned from the present survey that 61 per cent. of the regular course ex-students are resident in Ontario, and of these 65 per cent. are farmers and 21 per cent. are engaged in other agricultural pursuits, making a total of 86 per cent. at agricultural work.

In this connection it is interesting to note that in a survey made of the Alumni of Yale University in Connecticut it was found that only 2 per cent. of the graduates of that institution were in any way engaged in agricultural work.

To educate for agriculture it seems essential to do it through institutions where the ideals and the aspirations are in close sympathy with rural life.

Questions and Answers.

Miscellaneous.

Saw Loses Temper.
I was gumming out a 24-inch cross-cut saw and it became quite flexible. What can I do to make it rigid again?
C. P. T.

Ans.—Evidently in gumming out the saw you have overheated it and have taken the temper out. It is doubtful if you can re-temper it without sending it to a saw manufacturer.

Calf Chewing Boards.
What will cause a calf to chew at the boards in the stable? It is in good condition and gets hay, chop, corn, clover and wheat chaff.
A. H.

Ans.—Animals chewing at boards, bones, etc., is an indication that there is a lack of mineral matter in the feed. This should be supplied when feeding clover hay, but sometimes if the clover is grown on land deficient in lime it also will be lacking in this material. Sometimes the chewing of wood is merely a habit, which is difficult to break. Sprinkling the feed with a little lime water may help to overcome this trouble.

He Quit the Farm But Not "The Farmer's Advocate."

Although it is sixteen years since I have been on the farm, I almost invariably seek "The Farmer's Advocate" first to sit down and enjoy its contents from the first page of editorial to the advertisements of the breeders, etc. The comment of your parliamentary correspondent on the attitude of our parliamentarians refusing to put steamship companies under the jurisdiction of the Dominion Railway Board, in regard to rates, ports of call, traffic, etc., deserves the warmest commendation. As we in the Lake-of-Bays District have labored under the injustice of not having the Act in question on the statute books, it was refreshing to read the well-deserved censure by your Ottawa scribe, and a peculiar feature of our local press in the district is that they are dumb as oysters; in fact, in more than one instance they have fallen down and worshipped the golden calf.
EDWARD SPEERS.

Muskoka, Ontario.

What Should an Engine Weigh?

Abraham Lincoln was asked how long a man's legs should be and he replied, "they should be long enough to reach the ground—and no longer." An engine should weigh enough to do its work—and no more. Years ago it was necessary to cast engine parts very large and heavy, with heavy base and fly-wheel, or the violent explosions and fast and slow speeds of the old-style engine would tear it to pieces.
Six years ago the Cushman Motor Works designed a new type of farm engine weighing about one-fifth as much per H.P. as other farm engines, but so well built, balanced and governed that it ran more steadily and quietly than a farm engine was ever known to run. Some people laughed, and said that an engine weighing only 150 lbs. must be a toy, but when they saw the Cushman at work beside heavy engines weighing five or six times as much, they realized that weight does not mean power, and that the Cushman is a giant in power for its size.

Cushman Light Weight Engines
40 to 60 Pounds per Horse Power
4 H.P. Weighs Only 150 lbs. 15 H.P. Weighs Only 750 lbs.
6 H.P. Weighs Only 320 lbs. 20 H.P. Weighs Only 1200 lbs.
Cushman Engines have Throttle Governor and Schebler Carburetor, insuring regular speed even on jobs of irregular loads, like sawing. Their perfect balance also helps to make them steady, insuring unusual durability and freedom from engine trouble.
The 4 H.P. and the 6 H.P. are mounted on trucks, if desired, and may be pulled around by hand. These are very useful engines, as besides doing all work heavy engines do, they may be attached to machines in the field, as 4 H.P. on grain and corn binders and 6 H.P. on hay balers. All engines over 4 H.P. are double cylinder, which means steadier power.
The Cushman is not a cheap engine, but it is cheap in the long run. Engine Book free.
Write to-night!

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WANTED—A NUMBER OF REGISTERED
Shorthorn Cattle
Bulls, ages 8 months to two years old; heifers one year and up. I am not particular about fancy breeding. They must show size and quality and look like a pure-bred animal. Unless you have good individuals please do not communicate. Can also do with a few good Registered Clydesdale mares, fillies and stallions, but must have size and quality. Kindly state county, railway station, and telephone exchange.
W. J. McCALLUM :: Brampton, Ontario

LARKIN FARMS, QUEENSTON, ONT.
ABERDEEN-ANGUS CATTLE, SHROPSHIRE and SOUTHDOWN SHEEP
CORRESPONDENCE AND INSPECTION INVITED
(Mention Farmer's Advocate)

BROOKDALE HEREFORD FARM
Young stuff for sale at all times. Visitors always welcome and met any time.
Telephone. **W. READHEAD, Milton, Ontario**
Aberdeen-Angus—"Middlebrook Abbot 2nd," a prize winner at Toronto and Ottawa, for sale, as have had 5 years—price \$500. Young bulls and heifers \$175 and up. Get a pure-bred sire even if herd grade—it pays. A. Dismore, Mgr., "Grange Farm, Grafton, Ont."
ABERDEEN-ANGUS CATTLE
CLYDESDALE HORSES.
We offer good young stock for sale.
Jno. Underwood & Son, Grafton, Ontario

Spring Valley Shorthorns
Herd headed by Sea Gem Pride #98855. Present offering includes two real herd headers. One imported in dam, the other by Sea Gem's Pride and yearling and heifer calves. Yorkshires either sex. Write for particulars.
Telephone and telegraph by Ayr. **KYLE BROS., R. 1, Drumbo, Ont.**

SHORTHORNS (PURE SCOTCH)
Richly-bred bulls of A1 quality, by Eucana Ringleader #95963. Cows with calves at foot by Eucana Ringleader. Write your wants.
F. W. EWING R.R. 1, Elora, Ontario

20 Bulls—SPRUCE LAWN—100 Females—Clydesdales, Shorthorns, Yorkshires. Herd headed by Imported Golden Challenger 12234. A Rubyhill bred by Earl of Northbrook, by Ascott Challenger, bred by L. De Rothchild. Special bargains in farmer's bulls. Cows and heifers in calf, yearling and heifer calves. Yorkshires either sex. T. W. McCamus, Cavan, C.P.R., Millbrook, G.T.R. and P.O., Ontario.

ROBERT, MILLER, Stouffville, Ont. Has EIGHT of the best young bulls that he has owned at one time, good ages and beautifully bred. Also several cows and heifers, some of them with calves at foot, others in calf to Rosemar's Sultan. The Grand Champion bull at head of the herd. Everything of Scotch breeding. The prices are very reasonable, and though the freight is high it will be paid.

GLENGOW SCOTCH TOPPED SHORTHORNS
We have several thick, growthy bulls about a year old and sired by Prince Sultan; our present herd sire—a Roan lady, by Lavender Sultan. The families represented are Golden Drop, Crimson Flower, Wedding Gift, Wimple and Killean Beauty's. Also pricing females.
WM. SMITH, M.P., Columbus, Ont. Brooklin, G.T.R.; Myrtle, C.P.R.; Oshawa, C.N.R.