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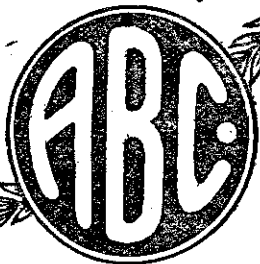
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IT IS ALL THE DESIGN.

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400 C. C. A.B.C. MOTOR CYCLE,
Covering 67 miles, 1636 yards in one hour.
Also Senior T. T. One Hour Race 500 C. C.
A.B.C. FIRST. WON BY 19 MILES.

All other Competitors were of greater cylinder capacity.

A.B.C. Competition Results have already demonstrated its su-
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carburettor, Car type brakes for and aft and perfectly sprung frame,
are some of its features.

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THE SOPWITH AVIATION CO.,
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ADVERTISEMENTS.

Advertisements—One insertion, 4/-
each; 3/- per inch for each sub-
sequent insertion (prepaid).
Wedding and Marriage Notices—3/6 one
insertion; 5/6 two insertions.
Funeral Notices—3/6 one insertion, 5/6 for
two, and 7/6 for three insertions.
General Notices—For notice only, 3/6;
with verses, 3/6, plus 6d per
line for each verse.
Lost and Found—1/- for one
insertion of sixteen words.

W. S. Robinson & Co.,

The Reliable Furniture House,
KELVIN STREET.
Phone—760.

The Nature Column.

(By "Student.")

("Student" will be pleased to receive
notes on any branch of Natural His-
tory. Observations on birds, insects,
plants, etc., will be equally welcome.
If using a pen-name, will correspondents
please enclose real name and address.)

The late J. R. Cuthbertson in the
eighties read a paper before the Institute
in Invercargill on our subterranean water
supply. He stated there that the water
bearing strata could be traced to the
Dunsdale at a uniform depth. We have
the same statement made to-day, i.e.,
"The continuous long line of auriferous
gravels through which the water per-
colates must exist without a break at an
"average uniform depth underground
"throughout the whole distance and on-
"ward in a north-easterly direction to the
"region of its origin." This implies that
the auriferous gravels were laid down by
a river coming from the north-east. It
also implies that the slope of the country
was much the same as it is now. The only
present day river which could have taken
such a course is the Mataura. It might
possibly have come through the site of
Invercargill. But the head-waters of the
Mataura in the not very far distant past
were, according to Professor Marshall, the
the head-waters of the Oreti River which
flowed down the air gap at Eyre Creek
through which the railway to Kingston
now runs. Its present course is a new
one almost from start to finish. Further
none of the rivers of Southland, the Ma-
tura included, take their rise in moun-
tains containing quartz in sufficient quan-
tity to account for the enormous deposits
on the Southland Plains, including the
water bearing strata under notice.

Where then did all this gravel come
from? A first-class geologist has said that
the gravel from the town bores shows
certain characteristics. The quartz was in
a massive form, and in schist country. In
Stewart Island we find the schist and
also quartz. The sea is comparatively
shallow down to the subantarctic islands
and seems to indicate the existence of a
continent now submerged. It is quite
within the bounds of possibility that the
river which deposited the gravel came
from the south or south-west. The source
of the river through the warping of the
land, has been submerged beneath the
sea, and the lower reaches raised. So
much for where the gravel came from.

Now the position in regard to the bores
is somewhat peculiar. Years ago an
artesian pipe was driven in the No. 2
gardens and from this water flowed with-
out pumping. Coming nearer to the tower,
at Roope's brewery in Mary street a bore
was put down to a considerable depth
but proved useless. Another bore was
put down on the Eastern Reserve but
this also was a "dud." The next step was
to put down a bore in front of the
present well, and this was a great success.
A deep bore was then put down to over
700 feet and proved that no water existed
below the gravels we are now drawing
from. It did, however, prove that Inver-
cargill is over an ancient deep valley
filled with silts and thin lignite seams,
indicating an estuarine deposit. A water
diviner was then called in and indicated
a spot midway up the park where he said
a large stream of water existed. This
bore was an absolute failure. A concrete
foundation for a pump still marks the
site of this abortive attempt and stands as
a monument to the fallibility of the water
diviner. Two years ago a bore was put
down some chains to the north of the
tower and a volume of water was found.
A large bore has now been sunk and the
next few days will show us what results
to expect. Going still farther north we
find that in Gladstone water can be got
easily at twenty feet. At Roope's brew-
ery the water rises in a well to the sur-
face a number of feet above the low tide
level of the Waihopai. In the old
gravel pit near the North Road the water-
bearing gravel can be seen out-cropping
several feet above the road, and has been
proved down below the bed of the Wai-
hopai.

At Kew no water was to be had, yet at
Heidelberg almost directly behind, water
is said to be abundant. At Underwood
a bore again proved a failure, the strata
apparently rising towards the surface.
This is not altogether surprising as rock
outcrops at the junction of the Oreti and
Makareia about a mile below and to the
west of Underwood. It should also be
mentioned that bores at the Power House
and on the reclamation have been suc-
cessful. So far as my information goes
the bores on the reclamation are consid-
erably shallower and indicate a rising of
the strata.

The evidence of the bores is not com-
plete, but it seems to show that the water
exists in channels in very much the same
way as we find the water running on the

surface in the beds of wide rivers like
the Rakaia. In this river, at normal
times, a number of small channels with
more or less impervious banks carry the
water. Only in floods does the river
rise bank to bank. Channels are often
filled and altered. In our ancient river
similar conditions may have occurred, I
will deal further with the remaining
points next week.



Kennel Notes.

The list of judges for the Canterbury
Kennel Club Show is as follows:—

Terriers (excepting Airedales and toys),
R. Francis, Esq.
Airedales, A. J. McEntree, Esq.
Bulldogs and toy dogs, S. H. Rastall,
Esq.
Harriers, G. B. Starky, Esq.
Working gun dogs, J. Fuller, Esq., and
R. D. Harman, Esq.
Working sheep dogs, W. Anderson, Esq.
All other breeds, Major Stafford.

The Canterbury Kennel Club is to be
congratulated on the number of fine
specials it offers for competition.

Kennel clubs usually allow their specials
to be won only by members of their club.
This order of things will be changed at
Christchurch this year when all comers
will have the same opportunity as mem-
bers. Exhibitors who show at the dif-
ferent shows will greatly appreciate the
new arrangement.

Dunedin clubs are sure to follow the
example set.

One of the best specials to be competed
for will be the Patron's Trophy, a very
fine cup presented by L. G. D. Acland,
Esq., for the best spaniel in the show.
The cup has to be won twice, the present
holder being Mr Alex. Kidd, of Inver-
cargill. Others holding a claim are:
T. W. Richmond, 1914; C. W. Good-
win, 1915; C. E. Spedding, 1916; H. A.
Taylor, 1917; not competed for in 1918.
If any of the above fanciers can annex
it this year it becomes their for keeps.

We believe that Mr Taylor, of Auck-
land, is likely to be absent from the com-
ing show, so we will be denied the plea-
sure of seeing "Edenvale Billy" having it
out with the best spaniel in the South
Island.

Mr Eric Hay, of Waiuku, is showing
and will take a lot of beating.

The owners of "Northland Naomi" have
decided to show her next month though
she will not be at her best at that time.

Distemper has been around again and
Mr Doe has had the misfortune to lose a
young dog which he thought a great deal
of. It is much easier to lose a good one
than to breed one.

"Rabymere Perfection" is not at her
best at present, her parental duties having
robbed her of her show appearance. It
will be hardly possible in the short time
left to get her fit enough to beat "Bilt-
cliff" and Co.

The club is providing two ladies' brace-
lets this year and have made a very wise
classification: No. 1, for sporting dogs;
No. 2, for non-sporting dogs. Previous
bracelet winners barred.

Mr Hutton, of Dunedin, has secured
a full brother to the late champion
"Lady Halsey." The dog is supposed to
be a fine type of bulldog, plenty of bone,
natural wide front, good head, calm and
expression. The name selected for Mr
Hutton's new discovery is "Admiral Hal-
sey." We wish him good luck at Christ-
church and leave the rest of the business
in his hands as we are inclined to the
belief that he has a knack of showing a
bulldog off to the best advantage.

The Dunedin Fancier's Club is forging
ahead with the enterprise of bringing the
noted all-round English judge, Mr Sam.
Crabtree, to New Zealand. The move is
one of the best yet instituted and if
brought to a successful issue the fancy
will be greatly benefited. Some of the
standards at present in N.Z. are inter-
preted in a queer manner.

We would advise exhibitors to keep in
mind the date of closing entries for Christ-
church, Saturday, October 23rd, 1920.

Winter Bros.,

GENERAL CARRIERS,

SPEY STREET,

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Furniture removed.

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commodation for twenty passengers and
will take parties out day or night at rea-
sonable prices.

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SHARE OF YOUR PATRONAGE.

OFFICE—SPEY STREET.

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CARRIES 350 EWES AND 400
DRY SHEEP.

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