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Up to the present all experiments in win-
tering have been conducted with greater or
less difficulty. The re-
Chaff Cushions sults have also been
and Absorbant. more or less unreliable
and unsatisfactory, and
they can only begin to be of value as they
are repeated again and again. The reason
is simple enough. Where we begin to deal
with living things, there are so many con-
ditions which begin to enter in, that only
the greatest care can bring out anything of
value. Take an experiment with breeds of
cattle as to beef, milk or butter, would an
experiment be of any value in which the
first five cows within reach were taken up
and compared. Certainly not. The individual
the age and constitution would have a
greater influence than the breed. So with
bees, not the number of bees or even the
age with the queen but the vitality of the
bees should be considered. We should of
course separate the powers of the queen and
the honey gathering qualities, hence the
great difficulty in determining the actual
benefits to be derived from a certain
system. We have however unbounded faith
in proper experimental work. No doubt as
the work is new, there will be mistakes
made as others have made them in experi-
menting in other lines. But by going on,
having friendly criticism and the co-opera-
tion of the most thinking and experienced
men we may hope to raise a structure in the
future to which intelligent men will look for
information of value. The questions of
absorbants as opposed to sealed covers has
received a good deal of attention, but after

all have we got at the root of the matter?
may sealed covers not be best under certain
conditions and absorbants best under others?
Yet one or other be always best under the
best conditions? How would this answer:
A sealed cover is not best when the
moisture is liable to condense on the under
side of the quilt and moisture to a greater
or less extent drop on the bees. We know
that the warmer the atmosphere the more
moisture it can contain; that when it strikes
a cool surface it condenses and this is just
what is likely to take place when there is a
quilt or thin honey board without packing.
The air passes in at the entrance and as it
approaches and passes through the cluster
takes moisture from it; continuing to rise
it strikes the ceiling of the home of the bees,
if there it finds a cool surface the tempera-
ture lowers and the moisture can no longer
be held in solution and it condenses, just as
it does on a window pane when it strikes
the cool surface of the glass. But if there
be plenty packing above to keep the surface
warm it passes on and down, no moisture
falling on the cluster. In such a case the
temperature of the hive is likely to be
higher with less effort on the part of the
cluster and the advantage is the vitality of
the bee is husbanded and the higher tempera-
ture in the hive as compared with the
atmosphere outside is likely to give better
ventilation, and the atmosphere outside is
not absorbed but expelled either at a portion
of the entrance, or we think better still when
in the cellar, at the back, the hive being
raised three eight inches from the bottom
board. Now how about absorbants? We do