



HOW TO HANDLE BEES.

Description of a Self-Hiver and Swarm Catcher Which Are Great Labor Savers.

In an apiary of 60 colonies or more it frequently happens that several swarms issue simultaneously, and, of course, always cluster together in one huge mass. If the queens are at large with the bees the cluster will necessarily be hived as one swarm, and the queens will kill each other, until only one survives. To prevent this loss, a week or so before swarming time I slip a queen trap on the hive entrance of each populous colony. Just a word about attaching the queen trap. The directions which accompany the traps are to fasten it to the hive with two nails. Now, it is not the best thing for the beekeeper or his neighbors to hammer on a beehive that is boiling over with bees, so I invented the contrivance herewith shown (Fig. 1), which consists of two small pieces of flat iron bent at right angles and fastened to the trap with two screws. To affix the trap to the hive, slip the fasteners under the alighting board. No matter

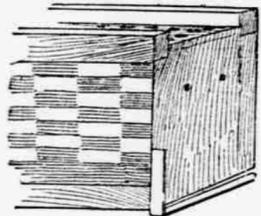


Fig. 1

how many bees are clustered all over the trap, it can be removed in an instant without even a jar; when a swarm issues the queen remains in the trap confined in an apartment by herself. I then remove the old hive and place an empty one in its stead, also removing the queen trap with the queen, and then sit in the shade and watch results. Invariably the swarm will return in ten to twenty minutes and enter the empty hive, for the bees mark the location and come back to their old stand after they have missed their queen. I then release the queen and let her run in with the swarm. I have had three queenless swarms hanging in one cluster, but when they break cluster they returned to their respective hives. I have also had them return and cluster all on one hive. Of course, such a mass of bees could not all enter, so I would take a dustpan and brush and divide them up. I could not get the right bees and queens together, but that seemed to make little difference. I have tested quite a few swarm catchers, but have found none to give such thorough satisfaction as this sim-

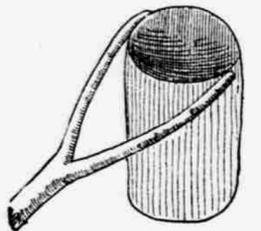


Fig. 2

ple device (Fig. 2), which any beekeeper can make: Find a suitable crocheted stick and remove the bark, make a ring about 20 inches in diameter out of stout wire (telegraph wire is just about right), next take a piece of burlap and sew into bag shape, then sew the wire ring into the mouth of the bag and fasten it into the crocheted stick so it will swivel, and the device is ready for use. It is well to have on hand one or two poles of different lengths and two short traps with which to unite them. To hive a swarm whose queen is at large with the bees, bring the swarm catcher right up under the cluster and give it a sharp jerk upwards, and the cluster will drop from the limb right into the mouth of the catcher; carry to the hive and invert the bag, or rather turn it inside out, and the bees will drop in front of the hive and run into it, and the hiving is done.—F. G. Herman, in Farm Journal.

Pointers on Hog Raising. Swine should never be kept in a close pen. Nor should a large number be kept in a small lot. I think that every hog, of whatever kind, should have a good shelter from rain and snow, both summer and winter. For winter shelter I prefer a small house three or four feet high made of logs or boards, and as near wind-proof as possible. It should be large enough only for six or eight hogs. Blue grass is the best fall, winter and spring pasture we have here, but clover is the best for late spring and summer. Rape has never been tried here till this season, and it may take the place of clover to some extent.—D. R. Dunihue, in Farmers' Review.

Sheep Do Not Dislike Silage. Silage is good for sheep as well as for other farm stock. The time is not far distant when silage for sheep will be provided for summer as well as for winter use. The sheep have to become accustomed to eat it readily, but that is the case with the dairy cow. The men that have tried to feed silage to sheep and have failed have generally abandoned the attempt too soon.

USES OF DEAD HORSES.

In These Days of Industrial Rivalry and Economy Every Part Finds Profitable Use.

The leg bones are very hard and white and are used for handles of pocket and table cutlery, says the Horse World.

The tail and mane are especially valuable, as from these are made the hair cloth of commerce.

The ribs and head are burned to make bone black, after they have been treated for the glue that is in them.

The phosphate of lime, acted upon by sulphuric acid and calcined with carbon, produces phosphorus for lucifer matches.

The short hair taken from the hide is used to stuff cushions and horse collars, thus the dead are made to minister to the comfort of the living.

The hide furnishes a waterproof leather known to the trade as cordovan, and is used for the manufacture of high-class hunting and wading boots.

There is an animal oil yielded in the cooking process which is a deadly poison, and enters into the composition of many insecticides and vermifuges.

In calcining of horses' bones the vapors arising are condensed and form the chief source of carbonate of ammonia, which constitutes the base of nearly all ammoniacal salts.

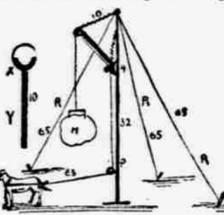
The hoofs of the animal are removed and after being boiled to extract the oil from them, the horny substance is shipped to the manufacturers of combs and what are known as Mikado goods.

The bones to make glue are dissolved in muriatic acid, which takes the phosphate of lime away, the soft element retaining the shape of the bone is dissolved in boiling water, cast into squares and dried on nets.

STRONG HAY DERRICK.

Its Designer Claims That It Is a Great Labor Saver and Always Works Smoothly.

The accompanying cut shows a hay derrick which has been used for years on our farm, and borrowed by our appreciative friends. It is a great labor saver and works very smoothly, unloading a large load of hay at five forkfuls. Double harpoon used now instead of forks. The center pole (raised with horse) is 32 feet long, eight-inch base, holding its size pret-



HAY DERRICK. The numbers, 10, 22, 65, etc., indicate lengths, in feet; R, R, ropes; P, pole; H, load of hay.

ty well up. There are four ropes, 62 feet long, three-quarters of an inch. Three of these are used for stay ropes; the fourth to draw up hay. The swinging yardarm is a stout, forked branch, rounded to fit the main pole with iron band attachment bolted to main pole. We use three pulleys, a double harpoon hay fork and a stout, trusty horse to draw up hay. The horse is good to back or halt instantly. It takes one good man to stack, one to load harpoon, and a small boy to lead or ride the horse. From 15 to 25 tons of hay can be easily stacked in a day.—Aendall Perry, in Ohio Farmer.

The Fecundity of Parasites.

A certain authority has stated that a single female louse may become the grandmother of 10,000 in eight weeks' time. Some other parasitic insects are said to breed even more rapidly. There is but one way to exterminate them and that is to kill the first one as quickly as possible before it has an opportunity for breeding. This is not so difficult if one pays attention to the matter, and as soon as their presence is suspected uses any good reliable remedy for them, of which there are many, although we know of none more efficient than kerosene emulsion, or a mixture of kerosene one pint in four pints of skim milk. In that proportion it may be used safely by a sponge or cloth, rubbing it into the skin. We remember when it was as unusual to see calves in the spring that were not troubled with lice as it is now to find a flock of poultry without them, and we hope another half century will banish them from the poultry yard as generally as the last half century has from the calf pen.

Composting Hog Manure.

Manure from hogs ought always to be composted and mixed with other excrement to ferment. The excrement from pigs does not heat readily, and when drawn on the land to be spread thinly before being plowed under it will not ferment sufficiently to do much good the first season. If mixed with the excrement from horses the faults of each help to correct those of the other. Horse excrement heats too rapidly and is liable to fireproof or be burned in the heap, leaving nothing but the ash as manure. Some farmers make a hog yard back of their stables, allowing the hogs to root over the piles of horse manure which are thrown on from grain-fed horses. If the horses are fed on whole grain the hogs will get thus a good deal of their keep, and on rooting over the horse manure their own excrement will be mixed with it.—American Cultivator.

Japanese Self-Sacrifice.

On board the Matsushima one man, who had been shot in the abdomen and whose intestines were protruding from the gaping wounds, refused to be carried to the surgeon's ward, because, he said, he did not want to take any of the fighters from their work in order to carry him below. Another, after having had his body burnt out of all recognition in attempting to extinguish a fire, stood by, helping all he could till the flames were put out, when he died. A third mortally wounded man, whose every gasp brought forth a gush of blood, would not close his eyes until he had told a comrade where the key of an important locker was and what the locker contained. A chief gunner, whose underjaw had been shot away and who could, of course, not utter a word, signed to a subordinate with a nod to take his place and fell dead after he had placed the handle of the gun lever in his subordinate's hands.—Hiroco Japan.

Turning Turf Into Coal.

Another plan for turning to account forces of nature as yet dimly understood is reported from Scandinavia, where a savant has discovered a method of converting turf into coal. The turf is placed in retorts and gradually heated to 250 degrees. The retorts are then closed and the temperature kept up for seven hours. The tar and gas products are thus retained in the coal mass to the extent of 80 per cent, and the resultant is said to contain 65 per cent. of carbon, 6 per cent. of hydrogen, 3.7 water and 5 per cent. of ashes. Turf coal gives about the same amount of heat as seconds, and has been tested both in Krupp's iron foundry and for domestic purposes.—Chicago Chronicle.

Germany's Gretna Green.

The little island of Heligoland, which was once the property of the British, but which was ceded to Germany a few years ago, is the Germany Gretna Green, and some day may even rival the American Milwaukee, in spite of the fact that it is some distance from the mainland and is hard to reach. Last year 160 couples from the continent were married there in a hurry, and this year this record probably will be broken, as during January the number of such couples was 14. It needs no bans nor any other preliminary ceremony to tie the knot there.—Troy Times.

Jubilee Rascalities.

The agitation against the rapacity of landlords who promise to evict tenants along the proposed line of the jubilee procession for the purpose of renting the windows for a year's rental, has developed into such a powerful popular protest that the question has found its way into parliament, and the home secretary has been forced to threaten a change of route, and a bill has been introduced to prevent the ejection of tenants who will not sign leases at the ruinous rates demanded.—Chicago Journal.

Valuable Pair of Trousers.

An old pair of trousers worth more than \$100 is not seen every day. A slack-wire walker in London has an article of this kind which he would not exchange for a £20 note. They are made of 25 complete skins of the South African antelope, and are in some places three inches thick. The first requirement in performing on a wire one-fourth of an inch in diameter is to wear well-padded garments of an indestructible material.—Chicago Inter Ocean.

His Breed.

"That's a nice-looking dog," remarked the kindly old gentleman, who takes an interest in everything. "Yes, sir; he looks all right," replied the seely individual, who was leading him with a piece of rope. "He looks like a pointer." "Yes, sir; that's what he looks like. But that ain't what he is. He's a dis-appointer."—Tit-Bits.

Rivals for Fame.

"I'm going to introduce a bill," declared the first legislator, "prohibiting any and all persons from going up in a balloon." "There's where you show your lack of statesmanship," sneered the second legislator. "My bill will make it an offense punishable by fine and imprisonment to fall out of a balloon."—Detroit Free Press.

Very Ambitious.

"Did you say that boy of yours was ambitious?" "Ambitious! Well, I should say! Why, that boy does nothing but sit around all day and think of the great things he's going to do!"—Philadelphia North American.

A Musical Language.

The Turkish language is said by scholars to be the softest and most musical language of modern times, being better adapted to the purpose of musical notation and recitation than even the Italian.—Chicago Times-Herald.

Movements on Foot.

Jinks—There is a man who has a number of movements on foot for making money.

A Botanical Fact.

Little Willie—Maw, I think I know why there are so many cat tails growing down beside that pond near the mill. Mamma—Why, my dear? "Cos so many kittens have been drowned there."—Pittsburgh News.

An Authority.

Brown—I'm going to write an article on the old question, whether Hamlet's insanity was real or feigned. Jones—What do you know about it? "Wasn't I three months on a jury?"—N. Y. World.

HORSELESS VEHICLES.

It has been suggested that automobiles be named in the same way as a yacht.

A bicycle is now a carriage in England and a bicyclist is not a foot passenger. So the divisional court of the queen's bench has decided in a toll-bridge case.

There seems to be an excellent opening for the sale of motor cars in Spain. In many of the provinces there is not a very extensive railroad communication and there seems to be an excellent prospect for the introduction of motor car, passenger and goods services between many places in the provinces of Spain.

In a new automobile which has been designed for doctors' use, the doctor is his own driver. He sits inside and obtains an uninterrupted view through large glass windows on all sides, the steering and manipulating devices being readily accessible from his seat. Inside the body is also a space for instrument cases and other necessary articles carried by a doctor.

There is a headlight, reading light and side lights. The vehicle is an electric one.

A series of 18 questions has been prepared for the examination of Chicago automobile operatives. Regular examinations are required, and the police are instructed to see that the ordinance is enforced. Good eyesight, sound hearing and a stable nervous system are required. The questions relate largely to the special type of vehicle to be used, also questions relating to the responsibility of operating a vehicle on the public streets, whether the operator has ever had any accidents or not, etc.

From Baby in the High Chair to grandma in the rocker Grain-O is good for the whole family. It is the long-desired substitute for coffee. Never upsets the nerves or injures the digestion. Made from pure grains it is a food in itself. Has the taste and appearance of the best coffee at 4¢ the price. It is a genuine and scientific article and is come to stay. It makes for health and strength. Ask your grocer for Grain-O.

Adding Color.

Larry—Do you remember our old tomcat that wud run if a kitten looked at him? Will, he kin lick th' hould alley by himself now. Denny—Phwat brought about th' change? "Wae toied a grane ribbon aroun' his neck."—Chicago Evening News.

Do Your Feet Ache and Burn?

Shake into your shoes, Allen's Foot-Ease, a powder for the feet. It makes tight or New Shoes Feel Easy. Cures Corns, Itching, Swollen, Hot, Callous, Smarting, Sore and Sweating Feet. All Druggists and Shoe Stores sell it. 25¢ Sample sent FREE. Address, Allen S. Olmsted, Le Roy, N. Y.

Pussy Willows, Perhaps.

Mr. Homewood—Are you doing any gardening this spring? Mr. Wilkinsburg—I have made a beginning. I planted a cat under a peach tree yesterday evening.—Pittsburgh Chronicle Telegraph.

To Cure a Cold in One Day

Take Laxative Bromo Quinine Tablets. All druggists refund money if it fails to cure. 25¢.

Comedian—"I laughed very heartily at my jokes to-night." Critic—"Ah, yes. Any old humor passes for good humor if the audience happens to be in good humor for laughing."—Buffalo News.

You Will Never Know

what good ink is unless you use Carter's. It costs no more than poor ink. All dealers. Love may laugh at locksmiths, but then, later on, not infrequently, so does the wolf at the door.—Puck.

Louis F. Waibel, Ph. G., St. Louis, Mo.,

wrote: I have recommended Teethina when the doctors gave up the child and it cured at once.

No woman should think of marrying until she acquires a forgiving disposition.—Chicago Daily News.

Sweat and fruit acids will not discolor goods dyed with PUTNAM FADELESS DYES. Sold by all druggists.

You can't expect a bag of wind to stand up straight.—Ram's Horn.

THE MARKETS.

CATTLE—Native Steers	4 50	5 75
COTTON—Middling	24 00	9 50
FLOUR—Winter Wheat	2 20	3 25
WHEAT—No. 2 Hard	2 75	3 50
CORN—No. 2	1 15	1 25
OATS—No. 2	1 00	1 10
PORK—Mess	11 75	12 50
COTTON—Middling	24 00	9 50
BEEVES—Steers	4 25	5 50
COWS and Heifers	4 00	5 25
CALVES—per 100	4 50	5 50
HOGS—Fair to Choice	4 50	5 25
SHEEP—Fair to Choice	4 25	5 00
FLOUR—Patents (new)	3 45	3 50
Other Grades	3 15	3 40
WHEAT—No. 2 Red	2 70	3 50
CORN—No. 2	1 15	1 25
OATS—No. 2	1 00	1 10
RYE—No. 2	1 25	1 50
TOBACCO—Leaf Burley	4 50	12 00
HAY—Clear Timothy (new)	10 00	13 00
BUTTER—Choice Dairy	13 00	15 00
HAM—Clear Rib	11 00	12 00
EGGS—Fresh	11 00	12 00
PORK—Standard Mess (new)	11 00	12 00
LARD—Prime Steam	10 00	11 00
CHICAGO.		
CATTLE—Native Steers	4 50	5 75
HOGS—Fair to Choice	4 50	5 25
SHEEP—Fair to Choice	4 25	5 00
FLOUR—Winter Patents	3 40	3 50
FLOUR—Spring Patents	3 40	3 50
WHEAT—No. 2 Spring	2 60	3 50
No. 2 Red	2 50	3 40
CORN—No. 2	1 15	1 25
OATS—No. 2	1 00	1 10
PORK—Mess	11 75	12 50
KANSAS CITY.		
CATTLE—Native Steers	4 25	5 15
CORN—No. 2	1 15	1 25
WHEAT—No. 2 Red	2 50	3 40
OATS—No. 2 White	2 10	2 15
CORN—No. 2	1 15	1 25
NEW ORLEANS.		
FLOUR—High Grade	3 45	3 55
CORN—No. 2	1 15	1 25
OATS—No. 2	1 00	1 10
HAY—Choice	11 50	12 50
PORK—Standard Mess	12 50	13 75
BACON—Short Rib Sides	13 00	14 00
COTTON—Middling	24 00	9 50
LOUISVILLE.		
WHEAT—No. 2 Red	2 50	3 40
CORN—No. 2	1 15	1 25
OATS—No. 2 Mixed	2 50	3 50
PORK—New Mess	12 50	13 75
BACON—Clear Rib	13 00	14 00
COTTON—Middling	24 00	9 50

How's This?

We offer One Hundred Dollars Reward for any case of Catarrh that cannot be cured by Hall's Catarrh Cure. F. J. Cheney & Co., Props., Toledo, O. We, the undersigned, have known F. J. Cheney for the last 15 years, and believe him perfectly honorable in all business transactions and financially able to carry out any obligations made by his firm. West & Truax, Wholesale Druggists, Toledo, O. Waling, Kinnan & Marvin, Wholesale Druggists, Toledo, O. Hall's Catarrh Cure is taken internally, acting directly upon the blood and mucous surfaces of the system. Price 75c. per bottle. Sold by all Druggists. Testimonials free. Hall's Family Pills are the best.

The Druggist's Work.

There is a druggist in one of the suburban districts who advertises: "The doctor prescribes; we execute." Such advertising cannot fail to appeal to those who desire to be executed.—Boston Journal.

In the Lake Country

of Northern Illinois, Wisconsin, Minnesota and Michigan, there are hundreds of the most charming Summer Resorts awaiting the arrival of thousands of tourists from the South and East. Among the list of near by places are Fox Lake, Delavan, Lauderdale, Waukegan, Oconomowoc, Palmyra, The Dells at Kellbourn, Elkhart and Madison, while a little further off are Minocqua, Star Lake, Frontenac, White Bear, Minnetonka and Marquette on Lake Superior. For pamphlet of "Summer Homes for 1900," or for copy of our handsomely illustrated Summer book, entitled "In the Lake Country," apply to nearest ticket agent or address with four cents in postage, Geo. H. Heafford, General Passenger Agent, Old Colony Building, Chicago, Ill.

Quite a Toot.

Forty-five trumpeters accompany the King of Abyssinia wherever he goes. Here is one man at least who doesn't have to toot his own horn to be heard of.—San Francisco Bulletin.

Remember that Glenn's Sulphur Soap

presents all the advantages of sulphur baths. Try it. Hill's Hair and Whisker Dye, Black or Brown, 50c.

The Proper Term.

The Maid—Marriage is promotion. The Bachelor—You mean commotion, don't you?—Chicago Evening News.

Piso's Cure for Consumption is an infallible

medicine for coughs and colds.—N. W. Samuel, Ocean Grove, N. J., Feb. 17, 1900.

All that a man hath will often give for

something that another man hath.—Ally Sloper.

YOUNG MAN! **YOUNG WOMAN!** do you want to better your condition in life? If so, we can tell you how to do it, by writing at once for our handsome 64-page Illustrated Catalogue FREE, containing portraits of students, interior school views, specimens of penmanship, medals, cost of course, a personal letter of information. (Lock drawer 58.) Ad. D. L. MUSELMAN, Gem City Business College, Quincy, Ill.

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