



To fight the hurricane offensively is folly. For ages mankind has been able to wage only a defensive war against its terrifying "drives" and these efforts have been, until modern times, pitifully feeble. Man's only defense is to be forewarned. That it has been possible in the present generation to reduce death toll of hurricanes to a minimum, is due to the marvelous service maintained by the United States weather bureau.

The hendquarters of the weather bureau, located quite to one side of cities rested on his decision. As he the coast met with disaster. Several main-traveled thoroughfares in the national capital, are the nerve center of this unique organization which ex- and southeastern section of the countends across the continent and also far out to sea, since many vessels co- ner of one whose joviality was a trifle at the minimum, was able to act with operate with the bureau by making forced, perhaps-about his repeated more definiteness, even though there daily reports to it.

Great Storm Sighted.

destined to devastate a wide area bor- tenseness in his manner as he studied report of September 11, flashed over dering the Gulf of Mexico, reared its the map, pointing to the low barom- the wires from Washington, read? head like a great monster a thousand eter area that was moving steadily to- "The tropical storm is apparently cen-States, among the islands of the Carfibenn. As to what gave it birth not even the scientist knows. The forces that propagate all of these storms are port of September 9: "The tropical center, and it is therefore impossible shrouded in mystery. This particular storm was central Tuesday night and at this time to state the portion of hurricane was born in remote tropical a little south of Key West where the the mainland that it will first reach, waters, probably about September 5, barometer read 29.08 inches with a although it is fairly probable that A few hundred miles north of this wind velocity of 60 miles an hour from it will be west of the Mississippi river. center of disturbance the sen was rel- the northeast. The storm is apparent- Storm warnings are displayed from atively calm and passengers on steam- ly moving northwestward, and will the Louisiana coast eastward to ceners passing this way had no intima- pass into the Gulf of Mexico during tral Florida and on the northwest tion of the terrific force that was Tuesday night." generating off to the south. Likewise, the southland of the United States lay forecaster had acted in the face of the its northwestward course additional placid, in part bathed in sunshine and oncoming peril is indicated by the news, brief but vivid, filtered in from in part shaded by far-stretching blank- next sentence: "Warnings to ship- points in its wake. September 11 the ets of clouds, many of them so fleecy ping and other interests have been Associated Press representative wired: that to the casual observer they car- regularly sent since Monday morning "Nine members of the Ward line ried no suggestion of the coming storm, when storm warnings were first dis- steamer Corydon crew of 36 men But the hurricane in the tropics gath- played on the south Florida coast." ered strength quickly and flung itself in fury over the slender chain of is-

The daily forecast for that date stated point on the Gulf coast, that a tropleal storm had appeared

meteorologist who is forecasting at more than one such storm had left dangerous winds by Friday." a trall of devastation across many states. The forecaster knew that millions of dollars worth of cargoes, the mighty force of nature was on. | prevent a loss that probably would about to sail from the Atlantic and With all its scientific data regarding have totaled thousands of lives and Gulf ports, might be lost if he failed the course of previous storms, instant- millions of dollars in shipping.

to make a proper forecast and issue adequate warnings. . The fate of whole turned from his study of the telegraphle reports received from the eastern try, he joked a little-but in the man- its fight to keep destruction and death hard luck at being on duty "every was no adequate means of ascertain-Early in September a hurricane, sight." There was an unmistakable fer area of the Gulf of Mexico. The ard the southern states

Weather Forecast Correct.

How speedily and decisively the

The following 48 hours were laden with grave responsibility for the staff They had been adrift on an upturned lands constituting the Florida keys. of the weather bureau. It was theirs lifeboat, without food and water for In the face of every such rising to decide at the earliest possible mo- three days. One of the crew, accordperli the meteorologist upon whom ment consistent with accuracy in what ing to their story, had become crazed, rests the responsibility for making direction the storm now moving with from suffering and privation Wednesdaily forecasts, stands like one facing increasing power and rapidity would day night, and sprang overboard," a thief in the dark. Beyond the main- travel as it came nearer the mainland. land coast and a few scattered sta- On Wednesday, September 10, the re- chief forecaster instinctively turned to tions in the West Indies, he has no port read. "The tropical storm passed Galveston, which in the past had sufmeans of learning of the changing Key West, Fla., about midnight Tues- fered terribly from similar storms, atmospheric, conditions in those seas day night with the barometer reading Dispatches from that city indicated to the south and east, save chance re- 28.81 inches, and estimated wind ve- that the tide was rising rapidly. Waports from ships. Early reports of locity of 110 miles an hour from the ter was flooding the low places on the this burricane were meager indeed, east." Here was evidence that one of Island and people were fleeing the The first intimation of the coming of the most violent storms of recent city. A 30-mile northeast storm was disaster was received September 8. years was about to strike at some blowing. But for the weather bureau's

This report revealed the meagerness Galveston before the gale struck the to the southeast of Key West. But of available information at this date city, millions of tons of cargo and as to its extent, or its course, the chief regarding the progress of the hurri- scores of ships would have put to sea forecaster at that time could only con- cane: "Tonight the storm is probably and would have been lost. central in the Gulf of Mexico, not far | In the next 24 hours the storm burst Despite his long experience in his from latitude 26, longitude 85, still upon the Texas coast in full fury. profession, it was inevitable that the moving northwest, and northeast While the papers the next few days forecaster should be anxious-every storm warnings are ordered on the were filled with accounts of the dam-Gulf coast from Carrabelle, Fla., to age and death caused by the hurricane such a time is anxious. He had been New Orleans, where the winds will the fact of greatest significance, and on duty in seasons past when not a probably be strong on Thursday night. which the public has come to take alsingle furricane appeared. But in Advice has also been issued to this most as a matter of course, only parother years between July and October section to prepare for possible very tially realizing the skill and responsi-

Defensive War Starts.

ly accessible and with reports from all available points of observation tabulated and recorded on the weather map, the weather bureau foretold many hours in advance the peril that threatened the Gulf coast. Thus the people were forearmed.

It will be recalled that storm warnings were displayed regularly on the south Florida coast since Monday morning. How accurate the weather bureau's forecasts had been is shown by the press dispatches dated Wednesday night, September 10: "Lower Florida was paralyzed today as a result of the violent hurricane that passed over that section last night. Not a house in this city (Key West) escaped damage; 320 frame buildings practically were razed, two church edifices wrecked, and five retail stores overturned. The damage is estimated at more than \$2,000,000. Shipping off small vessels were sunk and others were driven to the reefs."

By this time the weather bureau, in time one of these storms hove in ing atmospheric conditions in the cenwith latitude 27 degrees and longitude The next chapter in the hurricane's 88 degrees. Absence of reports forbrief history is told in the weather re- bld the definite location of the storm cont of Texas."

> While the hurricane was moving on were brought to this port this afternoon by the schooner Island Home.

In these hours the thoughts of the timely warnings which had reached

bility incolved, was that the weather bureau had been able to anticipate And so man's defensive war against this storm long enough in advance to

Was This Dog a Ghost?

killed by a train. For months after him. the Jeter family was much annoyed by the wild whistling of the passing trains. On complaining of this, they were told by the engineers that they should keep their dog at home, that the whistling was merely a warning friends of opposite sexes should not unfavorable inference could be deto the dog, which was always on the salute one another by shaking hands. duced thence."

tracks. The engineers described the In 1828, Sir John Nicholl, giving judge dog with such accuracy that the fam- | ment in an English divorce case, refly was greatly mystified, especially marked that "conduct highly blame-At Umbayo, South Africa, John when the engineers added that the able and distressing to the feelings of Jeter, an English settler, owned a very dog would always refuse to leave the a husband had been proved; but alfine hound that was run over and track until the engine was almost upon though 30 witnesses had been exam-

> Not Allowed to Shake Hands. on meeting as a matter of course, there was a time when purists held that might differ as to its delicacy, that no

ined, no indecent familiarities beyond kissing had been proved. The shaking of hands when they met was now Although today we all shake hands practice so frequent between person of different sexes, however, opinions

EUROPEAN BORER IS DESTRUCTIVE

Estimated Loss of Million Dollars Daily if Insect Once Gets Established.

FOUND IN EASTERN STATES

Larva Is Dirty White Caterpillar, About One Inch Long, With Brown Head-Ears of Corn Are Bored Through.

A million dollars' worth of demage a day is conservatively estimated as the effect of the European corn borer if it once gets establiszed in the corn belt of the United Staks. This is the statement of George A. Dean, head of the entomology department in the Kansas State Agricultural college.

The insect, which has done tremen dous damage in Europe and Asia, has been introduced into New York and Massachusette and is looked for in other regions.

Larva Is White Caterpillar.

The larva of the European corn borer is a dirty white caterpillar, about an inch long, with a brown head. It passes the winter in a nearly full-grown condition within its food plants. In the spring its growth is completed and it then bores its way to the surface of the food plant, where it makes a slight hole to serve as an exit for the resulting moth.

The larva now forms a cocoon in the burrow, passes into the pupal stage. and in about two weeks the adult moth emerges. The moth, which lives about two weeks, deposits 300 to 700 eggs on the food plant. In about five days the eggs batch, and the young larvae at first feed on the tender shoots of the plants, but finally bore their way into the main stem of the plant. In about six weeks, after burrowing through all parts of the plant, the larvae papate as before and emerge as moths about the middle of summer,

The female moths of the second brood do the greatest damage to corn, since they attack not only the stalk, but also the tassel and the ear, and continue feeding until cold weather.

Destroy Ears Completely. The ears of corn are bored through from bottom to top and from side to side, the borers feeding on the kernels while they are soft. Complete de-



A Good Harvest of Corn. With Good Organic Matter Left, Which, if Plowed Under, Will Make Next Corn Crop a Better One.

struction of the ear is generally accomplished either by the borer or through decay which follows the injury. One moth which emerges in the spring may be responsible for from 100,000 to 300,000 larvae later in the same senson.

Every farmer and gardener should be on the look-out for the insect, Professor Dean urges, and upon discovering signs of its presence should immediately inform his state entomologist or experiment station, sending in the insect or the plant on which it has evidently worked.

INSULATE HIVES IN WINTER

Ample Protection Should Be Supplied to Keep Out Cold Winds-Leave Entrance Open.

Protect hives from prevailing cold winds, and insulate hives to retain the heat generated by the bees. A grove of trees, an adjacent hill, or nearby fence may serve as a windbreak. The packing usually done should completely surround the hive, including the bottom, but the bees' entrance should remain open, though reduced in size. Cork chips, sawdust, fine shavings, dry leaves, chaff, and similar material should be used and packed tightly in a box built about the hive, allowing from six to eight inches space for the insulation.

QUARTERS FOR YOUNG STOCK

Preferable to Have Calves Separated From Main Part of Cow Barn-Mothers Not Disturbed.

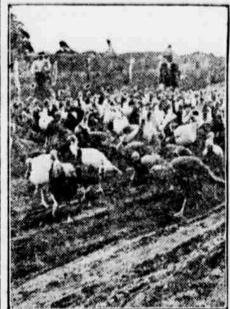
Some dairymen fall to consider housing the young stock when they build their barns. It is preferable to have the young stock separated from the mais part of the cow barn because of odors and because calves near their mothers will cause the cows to become restless. The quarters for the calves should be connected with the dairy barn, and a location on the south or east side of the barn is desirable.

GRASSHOPPERS MAKE FINE POULTRY FEED

Especially Relished by Turkeys and Guinea Fowls.

Fowls Consume Millions of Destructive Insects During Course of Year With Minimum Amount of Trouble to Farmers.

Grasshoppers are beginning to pay big cash dividends in North Dakota through the medium of pouttry, especially in turkeys and guinea fowls. The experiment has been successfully tried at the state agricultural college and numerous farmers have taken the cue.



Market.

Wherever there are green fields, there are grasshoppers and other insects, G. R. Greaves of the agricultural college, who has conducted the experiments, says:

"It seems the inexorable law of nature that wherever there is something good to eat there is something to eat it, and man's existence is a continual struggle for supremacy over the creatures that are determined to consume the food he requires."

During past years in North Dakota, prairie chickens, sage hens and grouse held the grasshoppers in check, and their plumpness and the delicious quality of their meat attested to the superiority of their food.

Now the prairie chickens especially are going the way of the buffalo, and Mr. Greaves was assigned to find a substitute that would keep down the insect pests with a minimum of trouble and expense to the farmer. The answer is turkeys and guineas.

Mr. Greaves declares that flocks of turkeys and guineas consume millions of grasshoppers and other insect pests, and naturally do their own foraging. Early in the season the experimental flocks at the agricultural college have grown fat and strong on the foung

Later in the season they have received the abundant exercise necessary for their proper market conditioning by chasing the elusive hoppers, have saved the field corps and provided a new, big source of income,

"Three old turkeys kept through one winter," said Mr. Greaves, "produced a flock of young turkeys the following season which kept the fields near their house clear of grasshoppers, and fulfilled their destiny by gracing Thanksgiving tables."

BEST PRACTICE IN PLOWING

According to Minnesota Expert It Is Best to Deepen Furrows Gradually Each Year.

The nature of the soil and the crop to be grown should determine the question of whether to plow deeply or more shallow. As with most other farm problems, the farm operator's judgment and experience must be called into play in determining which practice is best on any farm.

Andrew Boss, vice director of the Minnesota experiment station, believes that deep furrows turned on edge, or "three-quarters over," furnish the best conditions for pulverizing and sweetening the soil. "It is not good practice," he says, "to deepen the plowing greatly in any one year. It is better to deepen it by one-half inch or an inch each year until a sufficient depth has been reached. Rarely is it necessary to plow deeper than seven or eight inches, except for certain deep-rooted crops like sugar beets, carrots, potatoes and like crops.

"Where it is desirable to incorporate in the soil water-holding material, such as a green manure crop or a dressing of coarse barnyard manure, deep plowing is wise. Either a very sandy or a very heavy dense clay would be benefited by such treatment periodically."

FALLACIOUS IDEA OF SHEEP

Animals Will Consume More Weeds and Shrubs Than Other Animals, but Need Some Feed.

Many farmers who have failed with sheep have gone into the business with the fallacious idea that sheep will eat anything, simply because some misinformed person started the tale. Sfleep will consume more weeds and shrubs than any other class of animals, but to turn them into the woodlot and expect them to thrive on sprouts and dry leaves is asking too much of their digestive systems. However, there is usually waste land on most farms on which the sheep may be kept at certain periods of the year very profitably.

Nasty Colds

Get instant relief with 'Pape's Cold Compound'

Don't stay stuffed-up! Quit biowing and snuffling! A dose of "Pape's Cold Compound" taken every two hours until three doses are taken usually breaks

up a cold and ends all grippe misery. The very first dose opens your clogged-up nostrils and the air passages of the head; stops nose running; relieves the headache, dullness, feverishness, sneezing, soreness and stiffness.

"Pape's Cold Compound" is the quickest, surest relief known and costs only a few cents at drug stores. It acts without assistance. Tastes nice. Contains no quinine. Insist on Pape's! Ad.

FOUND IN AMHERST COLLEGE

Discovery of Audubon Collection of North American Birds Will Delight Ornithologists.

The famous Audubon collection of North American birds, which was mislaid thirty or more years ago, was discovered a short time ago in Appleton cabinet at Amherst college. In the collection are more than 800 type specimens of birds, from which, it is believed, Audubon painted the illustrations in his edition of "Birds of North America." Fifty of the specimens bear tabels containing Audubon's own handwriting and are dated 1834.

The collection was originally sold by the Audubon estate for \$600 to "Ward's Natural Science" establishment, following which it was sold to H. H. Farnum who, forty years ago, presented the specimens to Amherst college.

Curator Bangs, of the ornithological collectors at Harvard, will take possession of the collection, which contains specimen; of practically every kind of North American bird.

LONG FACES

"Cascarets" for Ever and Bowels bring back Smiles -

Turn the "kill-joys" out-the headache, biliousness, indigestion, the sick, -turn them out tonight and keep them

out with Cascarets. Millions of men and women take a Cascaret now and then and never know the misery caused by a lazy liver, clogged bowels, or an upset stomach.

Don't put in another day of distress, Let Cascarets cleanse your stomach: remove the sour, fermenting food; take the excess bile from your liver and carry out all the constipated waste matter and poison in the bowels. Then you will feel great.

A Cascaret tonight straightens you out by morning. They work while you sleep.—Adv.

Well Done.

"I understand both your daughters have been satisfactorily married."

"Yes; one married a baker, who, of course, can always raise the dough, and the other married a butcher, who knows how to make both ends meat."

Important to all Women Readers of this Paper

Thousands upon thousands of women have kidney or bladder trouble and never suspect it. Women's complaints often prove to be

nothing else but kidney trouble, or the result of kidney or bladder disease. If the kidneys are not in a healthy condition, they may cause the other organs to become diseased.

You may suffer pain in the back, headache and loss of ambition. Poor health makes you nervous, irrita-

ble and may be despondent; it makes any But hundreds of women claim that Dr. Kilmer's Swamp-Root, by restoring health to the kidneys, proved to be just

the remedy needed to overcome such Many send for a sample bottle to see what Swamp-Root, the great kidney, liver and bladder medicine, will do for them. By enclosing ten cents to Dr.

Kilmer & Co., Binghamton, N. Y., you may receive sample size bottle by Parcel Post. You can purchase medium and arge size bottles at all drug stores.—Adv.

Kind Advice.

Belle-I am having trouble keeping my complexion all right. Nell-Are you sure your jars are airtight?

Watch Cuticura Improve Your Skin. On rising and retiring gently smear the face with Cuticura Ointment. Wosh off Ointment in five minutes with Cuticura Soap and hot water. It is wonderful sometimes what Cuticura will do for poor complexions, dandruff, itching and red rough hands,-Adv.

Most people who grant a favor expect two in return.

Often the explanation has nothing to do with the case.