## BIRDS AND BUGS

BY CHARLES P. SHOFFNER.

We have upset the state of balance

THE BIRD'S APPETITE.

We have seed-eating birds and in-

weed seeds. The insectivorous birds

feed principally upon insects and these

All birds at times will eat cultivated

fruit. Generally this is caused by

ries, etc.) or by one species increasing

Some birds seem to do more harm

common crow, and the English epar-

row, an imported bird, are not pro-

tected on account of the damage they

Insectivorous birds eat an enormous

on plant-lice. Most hawks and owls

WHAT SHOULD WE DO?

First of all, do not begrudge a few

hirds are now protected by law.

We pay much attention to many Any artificial check or change in the things that are in reality of little balance might easily cost a century of value, and neglect other matters which trouble before the slow forces of Naare of the greatest interest to man-ture could make the necessary readkind. That's because we are human, justments. and also, very often, obstinate.

When a scientist says that it is pos- in relation to bird life. We have caresible for bugs to destroy the human lessly, thoughtlessly and arrogantly race, there is a loud ha-ha! and again killed our birds, and have allowed the s ha-ha-ha! Even scientists have been insects to increase enormously. known to be right. Do you remember when you laughed at the idea of hearing voices through the air without the sectivorous birds. The seed-eating use of wires? birds do much good by destroying

The folks who do not laugh at the bugs are the ones who raise the food supply of the world. They know that one tenth of everything produced is destroyed by the millions and trillions of insects that infest the fields. lack of their natural food (wild ber-

DO YOU KNOW?

Do you know that the number of to above the normal limits. insect species is greater by far than that of the species of all other living than good. The crow, both fish and creatures combined?

Do you know that almost 12,000,000 plant-lice have been found on one tree? Do you know that a single pair of Colorado potato-beetles, if allowed to increase without molestation, would, in one season, amount to 60,000,000? number of insects. The food of mea-Do you know that the unrestricted dowlarks consists of 72 per cent. de-

increase of one pair of gypsy-moths structive insects and 20 per cent. weed would in eight years be numerous seeds. It ty-one species of birds est enough to devour all the foliage in hairy caterpillars and 38 species feed Do you know that many caterpillars are great destroyers of mice, arts and

daily eat twice their weight in leaves? other rodents. Do you know that there is a fleshfeeding larva that consumes, in 24 hours, 200 times its original weight? cherries or a few of your berries to

cause a loss of more than \$100,000,000 fully. How long would you auto run other well, and are held in place by sons, was one of the so-called Hyksos, gasoline and kerosene and consider the fruit-growers of Canada?

### FACTS, NEVERTHELESS.

money and, in the long run, the con- their natural fruit foods. sumer must pay for it. Spraying is, Remember that from the beginning wear. No. 1345 is in sizes 34, 36, 38, the sixteenth century, B.C., these shepa makeshift and not a cure.

Let us admit that birds can not save natural enemy of birds and extermin-requires 3% yards 36-inch bordered and were succeeded by Egyptian kings all the fruit and vegetables, nor can ator of the various species. Man, with material, with % yard plain contrast- of the eighteenth and nineteenth dyn- mer stove often depends upon its ca- follow all the "do's" and "don'ts." In they eat all the bugs; nor do all birds eat bugs. The real students of bird life know these things are impossible, life know these things are impossible to achieve the king over Egypt, who knew not in a hurry. Tak with your neighbors turer frankly states that neither his king of fuel you intend to use. Visit found foolproof, and urges the purbut what we do know is that insecti- the past century.

vorous birds are the natural enemies We are up against a stern condition. serving public. The designs illustratour lesson was Thothmes III of the

tural world, long ago, reached a state life. of approximate balance, where every Will you become an ally of the that much desired air of individuality. or Rameses II, of the nineteenth dyn-ual needs. living thing had its means of support. birds?

No Lumps in Cereal.

the "active y boiling" point.

and ventilation flues.

folded in packages.

with a different material.

-

Five Hints.

To economize on laundry, use as

centre pieces paper napkins of the

dinner size. They are substantial and

iast for several meals. They come

If labels on cans are put on with

rubber bands the labels can be chang-

ed as often as the container is filled

----

followed.

purpose.

Years and years ago, in the days

Aprons of To-day. ard of, the modern apron that something mooth cereal was an everyday item practical and attractive can be chosen

One of the best of the new "covercause the housewife stirred the finegrained cereal into actively boiling conveniently opens in front, and then
water—not a bit of it. It was smooth
water—not a bit of it. It was smooth
because the careal was first maistaned around to the back. It protects best

To the departure from Egypt under
local time departure from Egypt under
Moses shortly after B.C. 1450. Against
his view is the fact that Thothmes III
conquered western Asia, including
Palestine, and established an empire
Palestine of the new "coverdiscrete into active with portstoves require a greater degree of
the country opens in front, and then
the covers, and there will be the atthe covers, and there will be the atwith cool, or perhaps barely lukewarm when cut full length to cover the frock water, made into a paste, and then beneath. It is very easy to iron, for it stirred into water boiling as actively may be laid out practically flat. It as water can boil over coal or wood. can be made with or without sleeves. Moistening the cereal and making One design has ragian sleeves, which it into a smooth wet paste is the secret are easy to put in, for no basting is of preparing fine-grained cereal with- required. A roll-back collar, which out a sign of a lump, for though the requires only the addition of a straight to carpenter work. Properly located, have been much more intricate and the Nile and the Red Sea in the time it is washed in cool water and stored directions on the packages all read so band at the neck, is also easy to make it will save many trips to the base-involved than that shown in our his- of Pharaoh Necho (seventh century simply, the actual preparation often and gives the apron, when donned, the proves to be far from the simple mat- effect of a complete house dress. Inproves to be far from the sample made erect of a complete house dress. The ter the printing would have us believe, deed, there is no reason why this de- ator is that evaporating water cools. that the Exodus took place under his All too often the "actively boiling" sign cannot be worn as such in warm water into which the cereal is being weather. In any case, it makes an ex-

or the water does not keep on actively are suitable materials. boiling in all parts of the saucepan, Still another convenient apron is the always shady would be an ideal spot. the last given in Genesis 46:8-27. If trouble, but a pine wedge will stick ing of paraffin a pleasant, rather than with the result that lumps form as one with straps crossed at the back Even on the hottest days in summer, we add to these who are named as the closer than a brother. the dry cereal is stirred into the liquid, and sewed to the sides of the apron it will hold a temperature that will direct descendants of Jacob, all those Of course the amount of water used in front. No buttonholes or buttons to moisten the cereal must be sub- are required to fuss with either in the coming to the table in excellent condi- marriage; or who were their servants tracted from the smount which the making or laundering. A bib and tion instead of in a hopeless, melted appear to have been considerably more. instructions direct the cook to bring to apron are included in the one-piece mass. design.

children will not be a bit of a task is the one with a beaded pattern dec- square or a rectangle. Nail on a bot- dence in Egypt is given by the historchildren will not be a bit of a task is the one with a beaded pattern decif these old-fashioned directions are orating one of the lower corners. Tiny

with the forefeet rolls them into a To exclude flies put a piece of screen-wire over the top of chimneys To avoid cleaning a bread board. To prevent the confusion which pleated rubber in such combinations often takes place in drawers as a resuit of opening and shutting them, use lavender and green. But the decoraboxes in them, omitting the covers. Men's sock boxes are good for this

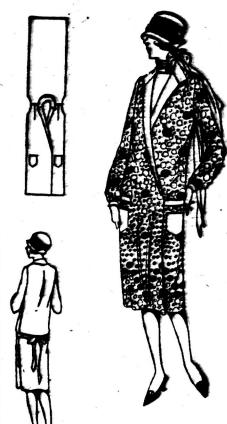
# Feed and Water Cannas.

Cannas are gross feeders and great drinkers. Give them water during dry weather, and if it contains liberal plant food, so much the better. I have sunk a bottomless bucket, or old lard can. Be lavish with your sweet peas and Egypt. half way up in the bed, where it was pansies when your friends come your. These treasure cities, v. 11, or "store of hornets dwelling close to a resi- The babies are fed on a food known hidden by the foliage, and filled it way. It is a good plan to let no blooms cities," were, probably, strongholds on dence will so closely patrol the premas "pap" which is composed of the To remove the rust from plows, etc., just take some ground corn, wet it and let it sour. Then put a half-inch layer of this mash on the rusty surface and cover it with a soaked sack face and cover to keep it wet. In three days the rust make a mice place to plant cannas, not picked they are pretty sure to gation, the making of dykes and emwill come off easily.—A. J. L.

There is never any danger of giving ripan seeds, though the effect is not so bankments, and the lifting of water too much water or getting the soil too quick or thorough as with the sweet from the river and its branches in the art of making paper, hornets chewed baby back home in the paper cradic -

that he can crawl up. should be made to do pot service at flowers, they bore extra large flowers productivity of the land.

with extra long stems.—A. H. "With what rigor the



Second, teach the children the value back. There are patch pockets of plain in the eighteenth and seventeenth cenof bird life. Put up bird-houses, elim-contrasting-color material to match turies before Christ. They were them-These are fact. It is practically impossible to raise fruit or vegetables without spraying. Spraying costs and vines to supply the birds with their natural fruit foods.

contrasting-color material to match the convertible collar, and facing of long revers. The long set-in sleeves and of a race akin to the Hebrews, a fact which may account for the kindness which they showed and the wellwrists, and may be cut short for house come which they gave them. Early in of time, man has been the greatest 40, 42 and 44 inches bust. Size 36 bust herd kings were driven out of Egypt,

draws favorable comment from the obas to whether the king mentioned in the dealers in your nearest town and chaser to use a fair degree of caution Bugs are increasing. The human race ed in our new Fashion Book are eighteenth dynasty, whose reign ex-Nature is closely balanced. The nalis fighting for its food, which is its originated in the heart of the style tended over the first half of the fif- various makes so that you can select Never, never attempt to refill a

### Iceless Refrigerator Inexpensive.

An ice ess refrigerator at a cost of ing this period, they would have been forced labor was employed may be less than five dollars, is within the still subject to Egypt, or in conflict judged from the fact recorded by Her-An iceless refrigerator at a cost of reach of any woman who has the with that empire as still holding power odotus that one hundred and twenty knack of using tools, or a man in her in Palestine. The whole matter is still thousand workmen lost their lives in tops of jeliles may be made to serve family, willing to devote a spare hour in doubt, and the course of events may the construction of a canal connecting again and again if when it is removed ment, and much food.

The refrigerator itself is simply a son and successor, Merenptah, about framework surrounded by wet cloth. B.C. 1200. carefully stirred boils up over the cellent apron for cleaning day, and It should be kept in a shady place, but I THE FIRST GENERATION OF ISRASLITES putting in a new one, soft wood is best pour from its accurate little spout, the edges of the dish and floods the stove, percale, gingham, print or cretonne where there is a free circulation of air. insure butter, milk, and other foods who had become attached to them by

Preparing the cereal for growing The latest design in rubber aprons quired. Arrange them either in a eration. The total period of the resinance acquainted with are known for their fence-post. See how quickly it scrapes beads in contrasting colors are sprink either wood or wire, about four feet (Exod. 12:40: compare Gen. 15:13). to getting along with boys and girls—small hall. The closing down the side of this cloth that it can be easily opened.

the first pan is carried to the tightly held to prove that the name was given —the largest member of our social are very important for the physical drawn coth of the sides, maintaining at an earlier time to that part of the wasps. With the exception of buzzing we fare of the occupants. Each comb a low temperature within, even on the country. The site of Pithom, and probaround our heads once in a while, of the hornet's nest resembles the nest hottest days .- Mrs. L. M. T.

## Peas.

Bechives should not rest directly upon the ground. Bricks, timbers or apecial stands six inches high can be appecial of supports. Place a board from the ground to the entrance so that he ground to the finest tropical peas. The perennial pea will bloom the great dams, or bar. The great dams, or bar will get something good to ext.

If there is a hornet's nest near your recent times, for the control of the land.

If there is a hornet's nest near your recent times, for the control of the much finer if the blooms are kept much of this burdensome toil, and have build its nest? If not, keep an eye at wasps and hornets, they will do be made to do pot service at flowers, they bere extra large flowers.

### ANALYSIS.

IN BEYPT I-R ESSION BY A NEW ECVPTIAN DYN.

INTRODUCTION—The book of Exodus oppressive kind of bondage, their dethe Book is that of God's care for his degree. ing himself in the midst of them.

eses II, and, therefort, that, if the to a hundred or more. Hebrews had settled in Palestine durtory. The commonly held view to-day B.C.). In modern times Monammed is that the Pharaoh of the oppression Ali's canal from the Nile to Alexan-was Rameses (or Raamses) II, and dria cost twenty thousand lives."

IN EGYPT, 1-6.

This is implied in the phrase, Every Four posts, four feet high, are reman and his household. All that gen-PRESSION, 7-14.

of the treasure cities, built by the hide away for the winter. Pick the Pansies and Sweet are found to have been made of Nile In fact, their habit of preying on pests left open. mud and chopped straw. Both cities were in the northeastern part of like the house-fly classes them among. Both horners and wasns pay named

"With what rigor the system of fellow away, watch it light on an old do not bether its nest.

## SUMMER STOVES FOR FARM KITCHERS

BY LUCILLE DAY.

All agree that during het weather; ome kind of cook-stove other than the coal or wood range is an absolute need in a coal or wood stove sometimes have difficulty in using other methods. If THE PIEST GENERATION OF ISRAELITES troubles of the housewife affect the the portable oven is a good one, interfamily through the frayed nerves and lined with asbestos so it retains the II INCREASE OF THE FEOPLE AND OF- disposition of the cook, and no woman heat, this is soon remedied. Rememtented in an overheated kitchen.

continues the history, in brief summary form, through the long period of farm women so much talked about Also, turn on the heat for the oven so the Israelites' residence in Egypt, and by students of sociology had its bethat it will be hot about the time you then, in much greater detail, tells of ginning in a case of prickly heat will need it. A little experience will the subjection of the people to a very brought on by cooking day after day soon determine the time needed for iverance by Moses, and their journey Yet, in the busiest season when the ature and if there is a thermometer ment at Mount Sinai in the second demands of the farm are greatest on for indicating the degrees of heat, so year of their departure from Egypt. her strength and resources, many a much the better. Use shallow pane. The latter part of the book (chaps. housewife works in such an infermo, a Heat can not easily reach the food 19-40) tells of a number of important place into which none of the rest of when the sides of the pans are too events which happened at Sinai, in the family ventures, unless obliged to high.

ing them good laws and the beginning the large amount of cooking and canof a national constitution, and dwell- ning so necessary in the average farm home. Before buying a stove for this The last chapters of Genesis tell the purpose, whether it uses electricity, remarkable story of Joseph, Jacob's acetylene gas, gasoline or coal-oil, de-SIMPLE AND CONSERVATIVE son, who rose to great power in Egypt, termine which kind you can operate and who settled his father and his with the greatest peace of mind. If Do you know that every year insects the birds. They work for you faith in this design the fronts overlap each minister and welcomed Jacob and his pros and cons of stoves operated by narrow string belts tying at the centre or Shepherd kings, who ruled in Egypt peace of mind with which you would operate either one. After determining the kind of fuel you intend to use be sure to select a

stove that will be large enough for

There is such charming variety in ly giving number and size of such usalem "in the four hundred and stove is not also required to heat the once or twice, but not always. Not stamps or coin (coin preferred; wrap Israe, were come out of the land of the year 'round stove. You will find unless it is kept reasonably clean, and it carefully) for each number, and Ecupt." Solomon's reign began about a type and style to meet every need. you will find your summer stove no in the diet list of many a household, for every need.

But the perridge was smooth not beOne of the best of the new "coverWilson Publishing Co., 73 West AdoManage household, for every need.

R.C. 970, and this would fix the date There will be the one-, two- or threeexception to the rule; in fact, such
burner plate and leg styles with portstoves require a greater degree of which endured until the time of Ram- vary, ranging from only a few dollars disguise in assisting you in your kit-

- Housewives who have always baked

can be comfortable, happy and conof the oven as possible (as that is the Sometimes I think that the unrest as you have been in the habit of doing. in an inferno heated by a coal range. the oven to reach the desired temper-

cluding the giving of the law and the do so. No house can be kept cool with Keeping the oven running for sevbuilding of the tent sanctuary, or a coal or wood range going full blast eral hours will raise the temperature tabernacie. The name "Exedus" is in the kitchen. Heat will travel and of your kitchen decidedly, so plan to which mean "departure" or "outward the temperature of the other rooms do as much of your baking at one time journey." The great central theme of will be raised to an uncomfortable as possible and not to light it unnecessarily. A small portable oven to be people, delivering them from bondage, The summer stove should heat up used on top of the saved, even if your leading them through the wilderness, the house as little as possible, yet do stove is provided with a large portable. The summer stove should heat up used on top of the stove will soon pay even or one which is built-in.

By all means, choose a stove with a giant burner. The rapidity with which such a burner heats water is a great convenience, and it is especially fine for jelly-making and ironing. For Another proof of the popularity of brothers, and their dependants there, you have electric service, investigate to one of the small burners after the "prints" is seen in this simple model, in the northeastern part of that counideal for morning or street war. The try, in a time of famine. It seems have an acctulated lighting system boiling point is reached, thereby savideal for morning or street wear. The frock with a crossover effect is always as fashionable as it is becoming, and in this design the fronts overlap each who made Joseph his prime up an acetylene plate; also weigh the fronts overlap each thereby saving the first overlap each the f three and fit closely together over one burner are also fuel savers. It is well to remember that vessels kept free from soot heat more quickly than those having a soot-encrusted bottom, such as is sometimes found on teakettles.

FOLLOW DIRECTIONS.

Having decided upon a stove, have your heaviest days of cooking. Even the dealer show you all he knows about if the large oven and extra burner are operating it before it is delivered. A seldom used, they are needed badly at book of directions comes with every times, and satisfaction with your sum-stove. Study this book and carefully asties, one of whom was, no doubt, the pacity. Avoid buying this convenience one book of directions the manufac-

centres and will help you to acquire teenth century (about 1503-1449 B.C.) the make best fitted to your individwithout first turning off all the burn-Price of the book 10 cents the copy.

HOW TO ORDER PATTHESS.

Write your name and address plain

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It is not the book 10 cents the copy.

Much progress has been made by ers and taking the tank outside (unstatement in 1 Kings 6:1 that Solomon began to build the temple in Jer
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The price of the chen during hot weather.

### Paraffin Hints.

The paraffin which we use on the away in a dustless receptable. For this storage nothing excels a small granite pot. Having a lid, it keeps the contents perfectly clean. When needed. all that is necessary is to place the pot Ax helves get broken sometimes. In over the fire a few minutes and then for the wedge in the head. Hardwood melted paraffin. This absolutely elim-A corner of your back porch that is These are the names, v. 1. Compare will spring out easily and make inates all drapping and makes the usan annoying process.

## OUR FRIEND, THE HORNET

The hornets and wasps which we are board roof, or on a weather-beaten

led thickly into a gummed design, such apart. The top should be of solid in Exod. 6:16-20 there are just four but social among themselves. The At first the nest may look like a ss a butterfly, posies or fruit. As the wood and should hold an enamel pan.

Over the framework put a covering of original source, a generation must lated to each other and also are distant a tree. As one storey is completed, cloth to remove soil, the decoration rust-proof wire screen, and under this have been reckoned as about one hun- cousins of our honey-making bees, together with its many hexagonal cells will last as long as the apron. Pretty frame put four short legs, resting in a dred years. If Joseph and his people They live in colonies, whether these be for holding eggs and infants, the walls colors, such as rose, pink, blue, yellow, second enamel pan. Around this settled in Egypt about B.C. 1600, or in holes dug in the ground, on trees are extended; and finally when the green, lavender and red are seen. For framework fasten cloth, stretched earlier, we can reckon, on this basis, or under the eaves of a shed or house, hornet's house is completed, the outroll out biscuit dough on white wrapchildren, dainty little rubber aprons tight.y. It should be long enough to the Exodus as taking place about 1200. From a solitary life which the queen side wall or roof is brought together are trimmed with contracting frills of reach the bottom of both enamel paus. II. INCREASE OF THE PROPLE AND OP- starts in spring, they develop into at the bottom, with only a small openlarge numbers until fail, when most of ing left as an entrance. The outer as rose and white, yellow and blue, should be made with snap fasteners, so A new king, v. 8. The fact that one them die and the surviving queens wall, or roof, is made of sheets of papor which often hear beautiful marktions are still more attractive, for they consist of hand-painted nursery motifs, such as bunnies, kittens and proposes.

Heavy flannel can be used, or a three decorations are still more attractive, for the winter.

Heavy flannel can be used, or a three labor of the Israelites was forced labor of the Israelites was forced labor of the Israelites was forced labor of the Israelites was for the winter.

Few folks fully appreciate the real ings. The partition walls are united to the king as bearing that name. But the first pan is carried to the tightly the lawset mamber of the winter. ably that of Raamses, has been identi-fied, and the bricks used in the walls. Their food consists largely of insects, but one storey, or platform, which is

our most valuable friends. A colony attention to the maring of their young.

NGENK

New York. vice for smu aprung from discovered by they inspected Rosie M. B., point on We destroyer Mc Aboard the torpedoes s carry liquor band. Each two feet in veloping each full length, which can b eraft, when f the surface of Painted a when in the bers of the o

**BODIES** I FROM ST

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Remains Victim Ac Sault Ste three o'clock

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tecovered fr three o'clock Cormier, age Boissincau a dians, who h stantly since At 4.30, the aged 16, wa o'clock, after pressed into Margaret Emily Terr dragging of well after da was found p dent occurre low the ship over a dista east at the they became the overturn sized in the attending t ts no doubt bodies hav

Insects Se Caldand.

ects face mastery of tions of war Dr. L. O. bureau of e Dept. of Ag address at tion of the Association Science. to exist."

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