NATURE STUDY LEAFLET: OUR COMMON BIRDS. SUGGESTIONS FOR THE STUDY OF THEIR LIFE AND WORK. BIOLOGY SERIES, NO. 2

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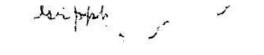
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Food Chart and Drawings by MISS HELEN A. BALL.



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COPURIGHT, 1899. By C. F. HODGE.

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BIOLOGY OF OUR COMMON BIRDS.

119370 By C. F. HODGE, Ph. D., Clark University.

Before genius is manliness and before beauty is power. -Burroughs, Birds and Poets, p. 173.

A thing of beauty is a joy forever: Its loveliness increases; it will never Pass into nothingness; but still will keep A bower quiet for us, and a sleep Full of sweet dreams, and health, and quiet breathing.

- Keats, Endymion.



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Great human values, of power, of thought, of beauty, attach to a knowledge of our birds; and the larger science, biology, takes them all into account. In elementary and popular education, especially, this wider science should

form the solid foundations for all our relations to bird life.

form the solid foundations for all our relations to bird file. The important question is: What do birds do in the world? In striving to answer this question we should also con-sider what we can do for our birds to render their work as complete and effect-ive as possible. We must first gain by observation and personal acquaintance with the living birds of each species a brownledge of their ways of doing things. knowledge of their ways of doing things, their foods, their beauties and their songs. Then give the imagination full play to picture vividly before us what the whole species is doing in every farm and garden and about every home in the the day and garden beds and garden and about every home in the the day and garden beds and found the day and garden beds the whole species is doing in every farm and garden and about every home in the the day and found the utivated fields and garden beds and found the day and the day land. Think of the millions of beautiful No foet to check their march, till they had made wings and building nests and eating bills The land a desert, without leaf or shade. and singing throats. Aside from their

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-Longfellow, Birds of Killingworth,

intellectual and æsthetic values the paramount service of the birds lies in their power to destroy insects. For this great work we have a vast mechanism in nature, an army plastic almost as air, on wings, powerful and beautiful, able to carry their literally flying squadrons hundreds and even thousands of miles whither food abounds and insects threaten destruction to vegetation.

In studying living things we should bear constantly in mind this great truth, stated often in the words: "As long as there is life there is hope:" In everything that lives there are infinite possibilities. No seed is so tiny but that it may hide the possibility of covering the whole world with plants of its kind. Instead of mourning the loss of our forests, let us go to work. With a single living pine seed, properly cared for by man, we may cover the continent in an incredibly short time with a forest of pines. A pair of living bird's eggs, with proper care by the children of the country, could produce in ten years a pair of birds for every child in the land. Let us consider for a moment the possibilities that lie hidden within the blue shells of a pair of robins' eggs. Allowing that ten young robins may be produced by a pair each year, with the life of a robin as ten years, we shall have :

ıst	year,	(2	+	10)		12	robins.	A bird came down the walk :
2d	**	(12		60)		72	**	He did n't know I saw : He bit au angleworm in halves,
3d	"	(72	**	360)	į.	432	**	And ate the fellow, raw.
4th	**			8	a.	2,592	* *	And then he drank a dew From a convenient grass.
5th	**				2	15,552		And then hopped sidewise to the wall To let a beetle pass.
6th	**			5	÷	93,312	8.6	-Emily Dickinson, Poems. p. 140.
7th	11					559,872	**	The winds blow cast, the winds blow west,
8th	4.6			•	3	3,358,232	2. 9.9	The blue eggs in the robin's nest Will soon have wings and beak and
9th				•	20	, 149, 392		breast, And flutter and fly awayLongfellow.
10th	340	2003			20	,896,352	**	
50th	**	1,0	516	,400,	00	0,000,000	0,000,00	0,000,000,000,000,000,000.

If we do not have all the robins we want, and this applies to any living thing, it is because we do not know enough about rearing them or are not willing to act in accordance with our knowledge.

In addition to this infinite power of multiplication we must never lose sight of another great law of biology, viz.: that every living thing possesses great possibilities of development and improvement. No one has yet produced the best and most beautiful rose or peach or bird or

man or anything else, that the world is capable of yielding. By proper care we can not only have a world full of such birds as we have now, but of birds with sweeter and sweeter

now, but of birds with sweeter and sweeter song and more and more beautiful plu-mage. And in presence of these infinite of Nature. possibilities for good or for ill we must

-Burroughs, Birds and Poets, p. 180.

above all things remember that every human action tends to make the world a garden or a desert, a paradise of joy and beauty or a vale of tears.

If only the birds we have, felt that they and their nests were safe, they might sing more and even sweeter than they do. Indeed, Burroughs remarks of English birds: "They sing with more confidence o, had wood birds here are house and gar-den birds there (Eng.).-Burroughs.) and copiousness, and as if they, too, had been touched by civilization." sing more hours in the day and more days in the year.1 And, further, if our birds were uniformly safe in man's presence and undisturbed, they would doubtless come much closer to us, as they did to Thoreau, and to Celia Thaxter in her garden. And with proper care many of our best songsters and most useful birds that are now rare,

might become more common, filling our parks and the thickly planted portions of our towns and even cities ; Many haps fall in the field

and with much more caution than pre-seded the introduction of the English sparrow, we might bring about our sparrow, we might bring about our sparrow, we might bring about our He search the woodcock's evening sparrow, we might bring about out homes the most beautiful songsters of other lands. But by far the safer and wiser course, as indicated by our title, will be to begin by making the most of the beautiful songsters of add the shy hawk did wait for him; what others did at distance hear, and guessed within the thicket's gloom, was shown to this philosopher, and the shidding seemed to come. -Emerion, Woodnotes, I, J.

infinitely rich, developed through geological epochs to exactly fit all the conditions of life on this continent. It is no light matter to break into this vast living harmony, as our bitter experience with the English sparrow bears ample testimony.

With this wonderful power of increase the question naturally arises : Why do we not have many more birds than we find about us? Why have we not hundreds where we have but one? Has the natural

¹Burroughs, Fresh Fields, p. 136.

What	thou	art	we	know	not:	

What is most like thee? From rainbow clouds there flow not Drops so bright to see. As from thy presence showers a rain of melody.

Teach us, spright or bird, What sweet thoughts are thine; I have never heard Praise of love or wine That panted forth a flood of rapture so divine.

Teach me half the gladuess That thy brain must know, Such melodious madness

From my lips must flow The world should listen then, as I am

listening now. —Shelley. To a Skylark.

limit of increase been already reached, so that attempts to increase the numbers would be useless? All such questions open up wide and important fields for observation and investigation. Food supply, for all î

seasons of the year, is the main factor in this great series of problems. This will be considered in a section by itself. The next great factors are natural enemies of bird life. In connection with each element in nature which tends to decrease ' our valuable bird life, we should endeavor to discover the best means of preventing its operation. That this matter is now a national exigency, in the careful study of which every patriotic citizen and every school child should participate, may be

duly appreciated by referring to William T. Hornaday's recent paper1 on the Destruction of our Birds and Mammals. We learn from this

that during the past fifteen years our birds have decreased in thirty states and territories 46%. For each of the states named this decrease has been as stated in table. Three states, -- North Carolina, Oregon, and California, show neither increase or decrease; and only four states, -Kansas, Wyoming, Washington and Utah have had an increase of bird life, It would be a most worthy ambition to infuse into our school system, reaching, as it does, the life and heart of every child, the purpose and the will to exert every effort to change this destructive process to one of increase, as rapid as possible, in every state and territory, in every county, farm, and city lot of the land.

(a) (a) (b) (b) (b) (b) (b) (b) (b) (b) (b) (b						
Maine .	40	20	12	2.5	144	37%
New Hamps	hire	22 -	10	100	- S.	32
Vermont	due.	S	62 -	33	12	10
Massachuse	tts.	÷.	32	- 22	23	27
Rhode Islan	đ	÷.	1.5	- 20	18	32 30 27 60
Connecticut		8.	- 61	2.5	35	76
New York New Jersey Pennsylvani	0.00	88 -	18 -	- C ()	82	758 171 538 38 38
New lersey	- S.	÷.	8 7 -	- CO	S2 - 1	37
Pennsylvani		4	15 - I	- 22	25	er.
Ohio			1	51		28
Ohio, . Indiana . Illinois .	- C	÷.		÷	3. L	60
Tilinois .		÷.				- 8
Minhiman	•	* -		•	1.	30
Michigan Wisconsin		÷.		•	0.5	10
wiscousin	(*) (•		•	× .	40
Iowa .						37
Missouri				÷.		30
Nebraska North Dako		+		•		10
North Dako	ta	1.1	305			58
District of C	olum	ibia	÷.			33
South Caroli	118	+				32
Georgia .					- 4	65
Florida .			÷.			77
Mississippi		÷.				37
Louisiana		÷.				55
Arkansas			1.			50
Texas .		÷.				67
Indian Terri	itory	20	÷.	22	1.5	75
Montana		12	1	<u>_</u>	10	75
Colorado			-	92	86	28
Idaho .		28		- 20	12	40
Average		4			S.	23 49 37 50 10 58 33 32 65 77 37 55 59 67 75 75 78 49 40

Climatic influences are severe in this country. Great numbers of birds are killed in heavy rain and hail storms. Whole species are

¹William T. Hornaday, Director of the N. Y. Zoölogical Park. The Destruction of our Birds and Mammals. Second Annual Report, N. Y. Zoölogical Society. N. Y., 1898. Office of the Society, 69 Wall Street.

decimated in times of sleet and in extraordinarily cold weather within the range of their southern migrations. Thus our bluebirds were killed off in 1895, and fearful havoc has been wrought in a number of our most valuable species in the Southern States during the past winter.1 With these elements it is difficult to contend. To what extent man is responsible by reason of clearing out natural shelter and destroying natural food supplies it is impossible to say. Again, in times of great drouth in regions where our common species breed, both food and water may become so scarce that numbers of nestlings famish or starve. The birds then are loth to desert their uests to go to regions of plenty. If birds were tamed sufficiently to come to man as their friend in times of great need, as they do in rare cases now, and as they learned to come to Mrs. Brightwen, a little food and shelter might tide them over the hard time, and their service afterwards would repay the outlay a thousand fold. About the house and barn and shade trees, safe places of shelter, crannies arranged on purpose, bird houses, due care being exercised to keep them clear of English sparrows and place them out of the reach of cats, might save great numbers of birds yearly.

Millions of fledglings, the country over, now go to feed vagabond cats. The remedy here is to rid the neighborhood of all such cats; and people who have cats that they value, for love of nature ought to see to it that they are provided with other food than young robins, orioles, thrushes and song sparrows. Much can be done by way of training cats to let the birds alone, and lastly they should be kept in as much as possible at times when young birds in the neighborhood are learning to fly.²

In recent years regions have been almost depopulated and whole species practically exterminated for purposes of millinery. The fault here does not rest, as is generally charged, with leaders of fashion or with our good lady friends who wear birds' skins on their hats, but rather with public education and with the ornithologists themselves who know better uses for birds, and who ought to adequately instruct the public instead of scolding and preaching at it.

²Prof. Forbush states that a cat is generally responsible for about fifty song birds in a year, and one cat to his knowledge destroyed six bird's nests in a single day.

¹See the Auk for April, 1899, note by Arthur T. Wayne, p. 197.