

Read Book The  
Natural History  
Of Bumblebees  
A Sourcebook  
For  
Investigations

**The  
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History Of  
Bumblebee  
s A  
Sourceboo  
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tigations**

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*Bumblebees Their  
Ecology and  
Conservation*

*Page 5/91*

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~~BUMBLEBEES—The  
Secret World of  
Bees ASMR - Page  
turning - #55 -~~

~~Natural History - no  
talking The  
Bumblebee  
Professor I. Why  
insects are  
important~~

~~Bumblebees—Life  
in a Cage: Part  
5/10—50th day of  
breeding—10~~

Read Book The  
Natural History  
of Bumblebees  
(*Bombus terrestris*)  
Natural History  
Night Nov 2020  
Bumble Bees of  
British Columbia:  
Big, Bumbly and  
Beleaguered  
*Bumble Bee* \*\*\*  
This Week in  
History: Season 7  
Episode 7: Bumble  
Bees The Lord of  
Bumblebees -

Read Book The  
Natural History  
Breeding and  
rearing of  
bumblebees  
(Bombus terrestris)

POLISH  
BUMBLEBEE

*Solitary bees -  
Naturalists'*

*Handbook No. 33*

BOOK HAUL | THE  
MOST BEAUTIFUL  
BOOKS...EVER! The  
bee orchid, *Ophrys*  
*apifera* | Natural



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~~History Museum~~

*beatrix potter intro*

Holding a HUGE

Bumblebee! BBC

The Wonder of

Bees with Martha

Kearney Trying Out

*Native Bees //*

Garden Answer

---

Why are bees

important? Israel

~~Bee-keepers~~

~~develop giant~~

~~bumblebee~~ How To

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Make A DIY Bumble  
Bee Nest - All Or  
Nothing! :) Wasp  
Evolution

Introduction to  
Solitary Bees Look  
inside a bumblebee  
nest Book Haul |  
Natural History and  
Beatrix Potter |  
Holly Dunn Design  
Bumble Bee survey  
part 1.1

Bumblebee

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Natupol The  
Bumblebee  
Professor II. The life  
cycle of the  
bumblebee Bumble  
Bees - Bees For  
Kids - Amazing  
Animal Books for  
Young The  
~~Bumblebee Queen~~  
~~Book Read Aloud~~  
~~For Children~~  
Learning

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Natural History

**Of Bumblebee Buzz**

**Webinar:**

**Conserving the**

**Buzz (Canada's**

**species-at-risk**

**bumble bees) The**

~~Natural History Of~~

~~Bumblebees~~

The Natural History

of Bumblebees fills

a gap in the

literature and

provides amateur

enthusiasts,

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educators, and

scholars the  
information to

develop their own  
projects in

bumblebee biology.

Kearns and

Thomson also

provide detailed  
instructions for

constructing simple  
equipment that

facilitates bee  
wrangling: the

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handling, tagging,  
studying, and  
raising of  
bumblebees.

Investigations  
~~The Natural History  
of Bumblebees: A  
Sourcebook for ...~~  
Worldwide, there  
are approximately  
250 species of  
bumble bees. Over  
40 bumble bee  
species are native

# Read Book The Natural History of North America.

Of these, only one species, *Bombus impatiens*, is currently reared by commercial producers in North America. Bumble bees vary greatly in size, with bees weighing from 40 to 830 milligrams (0.0014 to 0.029 ounces).

# Read Book The Natural History Of Bumblebees

~~Natural History of  
Bumble Bees~~

SARE

Bumble bees are social insects, living in colonies consisting of a queen and her offspring. As in most societies, through cooperation and division of labor,



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of the social colony has greater productivity than the sum of each individual's abilities. Tasks are divided among the three types of bees. The queen's prime duty is to lay eggs.

~~Natural History of  
Bumble Bees~~

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~~SARE~~ Bumblebees

The Natural History  
of Bumblebees fills

a gap in the

literature and

provides amateur  
enthusiasts,

educators, and

scholars the

information to

develop their own

projects in

bumblebee biology.

Kearns and

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Thomson also provide detailed instructions for constructing simple equipment that facilitates bee wrangling: the handling, tagging, studying, and raising of bumblebees.

~~[PDF] The Natural  
History Of~~

*Page 19/91*

Read Book The  
Natural History  
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Download BOOK  
The Natural History  
of Bumblebees A  
Sourcebook for  
Investigations. Out  
of Print. By: Carol A  
Kearns and James  
D Thomson. 130  
pages, Col photos,  
b/w photos, b/w  
illus, tabs .  
Publisher:  
University Press of

# Read Book The Natural History

Of Colorado. Click to  
have a closer look.

ISBN:

9780870816215 ...

## Investigations

~~The Natural History  
of Bumblebees: A  
Sourcebook for ...~~

Bumble bees live in  
annual, eusocial  
colonies founded  
by a single queen  
whose daughters  
form a female

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Natural History  
Of worker caste that  
provides foraging,  
brood care and  
nest maintenance  
[24]. A colony  
begins ...

~~The natural history  
of bumble bees: a  
sourcebook for ...~~  
Richardson, L.  
2013. Compilation  
of specimen  
records for *Bombus*

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Of Bumblebees  
America from the  
American Museum  
of Natural History,  
Harvard Museum of  
Comparative  
Zoology, among  
several other  
museums.

Unpublished data.  
Schweitzer, D. and  
N. Sears. May 1,  
2013. Bumble bee  
ranking guidelines.

Read Book The  
Natural History  
Of Dumblebees  
NatureServe,  
Arlington, VA.

~~Rusty-patched  
Bumble Bee Guide  
-New York Natural  
Heritage ...~~

List of bumble bees  
of the world.

Contact and  
enquiries;

Accessibility;

Website terms of  
use; Information



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## A Sourcebook ~~BUMBLE BEES~~ ~~Natural History~~ Museum Investigations

Although some males develop from unfertilized eggs laid by the queen, most hatch from eggs laid by workers. In early fall the queen stops laying eggs,

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Of Bumblebees  
and the colony,  
including the  
queen, gradually  
dies out. During  
this period the  
larvae of certain  
moths and beetles  
prey on the  
remaining eggs  
and larvae in the  
nest.

~~bumblebee |~~

~~Description,~~

*Page 26/91*

# Read Book The Natural History Species, Life Cycle, & Facts ....

A Sourcebook  
For  
Investigations

Biogeographic  
regions for  
bumblebees were  
derived using a  
TWINSPAN  
classification. This  
divides the equal-  
area (611,000 km)  
grid-cells (see  
below and the map  
of species richness  
) into 12 groups by

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Natural History  
differences in the  
species  
composition of  
their bumblebee  
faunas (updated  
from Williams,  
1996 [pdf] ).

~~BUMBLE BEES—  
Natural History  
Museum~~

A bumblebee (or  
bumble bee,  
bumble-bee, or

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(humble-bee) is any  
of over 250 species  
in the genus

*Bombus*, part of  
*Apidae*, one of the  
bee families. This  
genus is the only  
extant group in the  
tribe *Bombini* ,  
though a few  
extinct related  
genera (e.g.,  
*Calyptapis* ) are  
known from fossils

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~~Bumblebee~~

Wikipedia

Investigations  
Yellow bumble  
bees have declined  
in New York when  
comparing known  
post-2000 records  
to the number of  
all records  
pre-2000 based on  
presence of *B.*  
*fervidus* in

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Of Bumblebees  
proportion to the  
bumble bee  
populations in  
those years as a  
whole (data from  
Richardson 2013  
and Yanega 2013).  
While the short-  
term trend  
indicates a rapid  
decline statewide,  
it has been ...

~~Yellow Bumble Bee~~

*Page 31/91*

Read Book The  
Natural History  
Guide—New York  
Natural Heritage  
Program

The natural history  
of true bumblebees  
(*Bombus*) Nests  
and their  
establishment in  
captivity. Cuckoo  
bumblebees  
*Bombus*  
(*Psithyrus*),  
parasites and nest  
associates.



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Of Bumblebees  
behaviour. Threats,  
conservation and  
commercial use.  
Identification.

~~Bumblebees |  
NHBS Field Guides  
& Natural History  
The Cuckoo  
bumblebee  
lifecycle. Cuckoo  
bumblebees are a  
group of related~~

Read Book The  
Natural History  
Of Bumblebees  
species that are  
descended from  
'true' or 'social'  
bumblebees.

However, cuckoo  
bumblebees, like  
their namesake the  
cuckoo bird, use  
the nest of true  
bumblebees to  
raise their own  
offspring. The  
female (there is no  
queen) cuckoo

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bumblebee enters  
the nest of the true  
bumblebee, and  
often hides in the  
nest debris for a  
while.

~~Lifecycle~~

~~Bumblebee~~

~~Conservation Trust~~

Cockerell, 1910.

Bombus irisanensis  
is a rare species of  
bumblebee

Read Book The Natural History Of Bumblebees Endemic to Luzon in the Philippines. A Sourcebook For Investigations

The hair on the head is mostly black, the thorax is dorsally black and reddish-yellow on the sides. The first two segments of the abdomen are yellow and the rest are black.

~~Bombus irisanensis~~

*Page 36/91*

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~~—Wikipedia~~

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American Museum  
of Natural History |  
New York City

The spring to late  
summer period of  
colony found- ing,  
build up, and  
production of  
reproductive  
individuals,  
followed by the over  
wintering of new que  
ens provide the

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Natural History  
Of Bumblebees  
natural history  
basis for  
management  
considerations of  
the approximately  
46 North American  
species.

~~Conservation and  
Management of  
North American  
Bumble Bees~~  
Title. Annals of the  
Lyceum of Natural

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History of New  
York. Related  
Titles. Succeeded  
by: Annals of the  
New York Academy  
of Sciences By.  
Lyceum of Natural  
History (New York,  
N.Y.) Type

In The Natural  
History of

*Page 40/91*



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Of Bumblebees,

biologists Carol A.  
Kearns and James

D. Thomson give

amateurs and

professionals alike

the basic

knowledge to

pursue the joys of

observing and

investigating these

attractive and

amenable subjects.

Packed with

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information on

bumblebee  
colonies, bee

honeypots, bee

development,

foraging behavior,

as well as

instructions for

maintaining

bumblebees in

captivity, this lively

and colorful book

also includes an

easy-to-use

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photographic field  
guide to aid in the  
identification of  
over fifty species of  
North American  
bumblebee-  
virtually every  
known species on  
this continent. Until  
now, even the  
basic identification  
of North American  
bumblebees has  
been through the

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use of highly

technical regional  
keys. The Natural  
History of

Bumblebees fills a  
gap in the

literature and  
provides amateur  
enthusiasts,  
educators, and

scholars the  
information to  
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projects in

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Kearns and  
Thomson also  
provide detailed  
instructions for  
constructing simple  
equipment that  
facilitates bee  
wrangling: the  
handling, tagging,  
studying, and  
raising of  
bumblebees. They  
present

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Of Suggestions for

research projects  
and identify areas  
of incomplete

knowledge

requiring further  
research. This book  
is an invaluable  
reference for  
students and  
scholars of native  
pollinators and an  
indispensable  
resource for

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Of Bumblebees  
naturalists,  
gardeners, and  
anyone who has  
ever been  
fascinated by the  
flight of the  
bumblebee.

A detailed and up-  
to-date account of  
the behaviour and  
ecology of  
bumblebees. This  
group of relatively

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Of large, colourful and familiar insects are a very popular subject of study because their behaviour can be observed without the use of elaborate equipment, enabling amateur and experienced entomologists alike to get close to



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Of these colourful and social creatures.

Unlike honey bees, bumblebees work on plants with no nectar, and play a crucial role in the pollination of flowers and vegetables. The farming industry relies heavily on these efficient pollinators: few, if

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Of any bean flowers, for example, would set pods unless they were pollinated by bumblebees, and many apple, pear and plum trees rely on visits for a bountiful harvest. However, bumblebee populations have recently suffered

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Of Bumblebees  
A Sourcebook  
For  
Investigations

alarming decline,  
with three of the  
UK populations  
already extinct and  
another nine on the  
endangered  
species list.

The essential guide  
for identifying the  
bumble bees of  
North America  
More than ever  
before, there is

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widespread  
interest in studying  
bumble bees and  
the critical role  
they play in our  
ecosystems.

Bumble Bees of  
North America is  
the first  
comprehensive  
guide to North  
American bumble  
bees to be  
published in more

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of Bumblebees

A Sourcebook  
Richly illustrated  
with color

For  
photographs,  
diagrams, range  
maps, and graphs  
of seasonal activity  
patterns, this guide  
allows amateur and  
professional  
naturalists to  
identify all 46  
bumble bee  
species found north

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of Mexico and to understand their ecology and changing geographic distributions. The book draws on the latest molecular research, shows the enormous color variation within species, and guides readers through the many

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convergences  
A Sourcebook  
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between species. It  
draws on a large  
repository of data  
from museum  
collections and  
presents state-of-  
the-art results on  
evolutionary  
relationships,  
distributions, and  
ecological roles.  
Illustrated keys

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allow identification  
of color morphs  
and social castes. A  
landmark  
publication,  
Bumble Bees of  
North America sets  
the standard for  
guides and the  
study of these  
important insects.  
The best guide yet  
to the 46  
recognized bumble



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Of Bumblebees  
North America  
north of Mexico Up-  
to-date taxonomy  
includes previously  
unpublished results  
Detailed  
distribution maps  
Extensive keys  
identify the many  
color patterns of  
species

"Examines the

*Page 57/91*

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British fire service  
from 1800-1980,  
embracing certain  
key themes of  
modern British  
history: the impact  
of industrial  
change on urban  
development, the  
effect of disaster  
on political reform,  
the growth of the  
state, and the

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relationship  
between  
masculinity and  
trade unionism in  
creating a  
professional  
identity"--Provided  
by publisher.

A detailed and up-  
to-date account of  
the behaviour and  
ecology of  
bumblebees. This

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group of relatively large, colourful and familiar insects are a very popular subject of study because their behaviour can be observed without the use of elaborate equipment, enabling amateur and experienced entomologists alike

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of get close to  
these colourful and  
social creatures.

"Bumblebees" is an  
entirely new  
addition to the  
increasingly  
popular New  
Naturalist series,  
and is written by  
an expert in the  
field. Ted Benton  
provides a detailed  
and comprehensive

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account of the lives  
of the 25 species of  
bumblebee found  
throughout the UK,  
which includes  
acclaimed colour  
photographs of the  
sexes and castes of  
all species, detailed  
photographs of the  
bumblebee  
habitats, detailed  
key to help aid  
identification,

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Original anatomical  
line drawings, and  
the latest findings  
on conservation  
status and habitat  
requirements.

Eyes with more  
than 6,000  
separate lenses;  
bodies so hairy  
that they attract  
pollen by static;  
the ability to

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communicate by dancing... bee stats are endlessly engrossing. And the bee is as important to the production of human food as any machine; without the bees to pollinate them, most of our crops would be dead in the field. So how



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did this furry little workaholic come to be so crucial to the planet? *The Bee: A Natural History* answers that question and many more, looking at bee development from 65 million years ago to today, when over 20,000 bee species have been identified and

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Of Bees is  
enjoying a surge in  
popularity.

Exploring  
evolution,  
anatomy, society,  
behaviour, and the  
human factor, and  
presenting a visual  
directory of 40 bee  
breeds alongside  
practical fact  
panels, this is the  
book that will

Read Book The  
Natural History  
Of Bees  
become a buzz  
word for every  
keeper, student, or  
lover of bees.

Investigations  
FOLLOWING IN THE  
FOOTSTEPS OF  
GREAT NATURE  
WRITERS SUCH AS  
E.O. WILSON AND  
CHARMING  
MEMOIRS LIKE  
GERALD  
DURRELL'S MY

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FAMILY AND OTHER  
ANIMALS, THIS  
FASCINATING  
BOOK WILL ALTER  
THE WAY WE THINK  
ABOUT  
BUMBLEBEES.

Dave Goulson  
became obsessed  
with wildlife as a  
small boy growing  
up in rural  
Shropshire, starting  
with an

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Of increasingly exotic menagerie of pets. When his interest turned to the anatomical, there were even some ill-fated experiments with taxidermy. But bees are where Goulson's true passion lies—the humble bumblebee in particular. Once commonly found in

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of the marshes of

Kent, the English  
short-haired

bumblebee went  
extinct in the

United Kingdom,  
but by a twist of

fate still exists in  
the wilds of New

Zealand, the

descendants of a

few pairs shipped  
over in the

nineteenth century.

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Dave Goulson's  
passionate quest to  
reintroduce it to its  
native land is one  
of the highlights of  
a book that  
includes original  
research into the  
habits of these  
mysterious  
creatures, history's  
relationship with  
the bumblebee,  
and advice on how

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of Bumblebees  
to protect the  
bumblebee for  
future generations.

One of the United  
Kingdom's most  
respected  
conservationists  
and the founder of  
the Bumblebee  
Conservation Trust,  
Goulson combines  
lighthearted tales  
of a child's growing  
passion for nature



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with a deep insight into the crucial importance of the bumblebee. He details the minutiae of life in the nest, sharing fascinating research into the effects intensive farming has had on our bee population and the potential dangers if we are

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of Dumbbells  
to continue down  
this path.

A SOURCEBOOK  
FOR  
A CONSERVATIONI  
ST'S DEEPLY  
PERSONAL AND  
FASCINATING  
REFLECTION ON  
OWNING AND  
REVITALIZING A  
FARM IN RURAL  
FRANCE A Sting in  
the Tale, Dave  
Goulson's account

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of a lifetime  
studying bees, was  
a powerful call to  
arms for nature  
lovers everywhere.

Brilliantly  
reviewed, it was  
shortlisted for the  
Samuel Johnson  
Prize for the best  
nonfiction book of  
the year, and  
debuted the  
already renowned

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Of Conservationist's

ability to charm  
and educate, and  
tell an absorbing

story. In *A Buzz in  
the Meadow*,

Goulson returns to  
tell the tale of how  
he bought a  
derelict farm in the  
heart of rural  
France. Over the  
course of a decade,  
on thirty-three

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of acres of meadow,  
he created a place  
for his beloved  
bumblebees to  
thrive. But other  
creatures live there  
too, myriad insects  
of every kind,  
many of which  
Goulson had  
studied before in  
his career as a  
biologist. You'll  
learn how a

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deathwatch beetle finds its mate, why butterflies have spots on their wings, and see how a real scientist actually conducts his experiments. But this book is also a wake-up call, urging us to cherish and protect life in all its forms. Goulson has that

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A Sourcebook  
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Investigations  
rare ability to  
persuade you to go  
out into your  
garden or local  
park and observe  
the natural world.  
The undiscovered  
glory that is life in  
all its forms is  
there to be  
discovered. And if  
we learn to value  
what we have,  
perhaps we will

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An indispensable  
guide to  
identification,  
ecology and study  
of bumblebees.  
This new edition  
embraces the  
wealth of  
information  
published on  
bumblebee life



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of Bumblebees  
history, ecology,  
foraging, parasites  
and conservation in  
A Sourcebook  
For  
Investigations  
recent years. It  
includes a new  
chapter on the very  
real threats to  
bumblebees; their  
crucial role as  
pollinators of our  
native flora and  
crops; ways to  
promote their  
survival;

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advantages and problems posed by their commercial use; as well as updated colour plates, keys and distribution maps of all British species (including *Bombus hypnorum*). The book introduces techniques and approaches to

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Original work so  
that anyone with  
an interest can  
usefully contribute  
to furthering our  
understanding and  
appreciation of  
these wonderful  
and important  
insects.

The vital role of  
bees in human  
ecology is

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Underlined by the  
estimate that every  
third mouthful of  
human food is  
dependent on the  
pollinating services  
of bees. Only  
recently have  
biologists  
discovered that  
human survival is  
inextricably linked  
to the survival of  
insects,

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Of Bees, specifically, bees.

Today the  
16-20,000 species  
of bee continue to  
play vital roles in  
human ecology.

We survive only by  
grace of the life-  
sustaining network  
of bee-plant  
relationships. Bees  
immerses readers  
in the world of a  
group of insects

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whose diversity of  
form and behavior  
is eloquent  
testimony to the  
fine-tuning of  
natural selection.

Written by a world-  
leading  
entomologist and  
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