



Chapter 1: Ladybird, Ladybird. . .

Everyone Loves a Ladybird!

Ladybird, ladybird, fly away home,
Your house is on fire and your children all gone,
All except one and that's little Anne,
And she's crept under the warming pan.

Children throughout the English-speaking world sing this endearing little nursery rhyme. It shows the caring way in which we regard these colourful creatures, which until recently were unique among the insects in being regarded benignly everywhere. Ladybirds are the first insects that most children learn to recognise. In Europe, I have yet to meet anyone who actively disliked ladybirds, let alone had a phobia about them. This is surprising because many people show a strong dislike of beetles, and ladybirds, belonging to the insect order Coleoptera, are beetles. So why do we view ladybirds in this way?

The essence of our rosy view of ladybirds is that they are fun. Their wide popularity is manifest in the commercial and charitable organisations that use them as a motif (Fig. 1.1). In Britain, the shopping chain Woolworth's used the ladybird brand name for its range of children's clothes. Ladybird Books have helped many youngsters in their early reading. In Germany, Coccinelle became a nickname for the early models of the Volkswagen, which, in America, was nicknamed the beetle. The nickname obviously did the car no harm, as the beetle-shaped Volkswagen has been one of the most successful models of car ever produced.

The popularity of ladybirds owes much to their bright colours, most often red or orange and black. They are easily spotted, being active mainly by day, and doing little to hide away. The habit some species have of overwintering in our dwellings, around window frames, or in corners of cool rooms, also brings them to our attention.

The use of ladybirds as pest controllers also contributes to their popularity. Most ladybirds are predators, eating sap-sucking plant pests, particularly


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Fig. 1.1. The popularity of ladybirds is evident from their wide use in merchandise and marketing as seen here alongside the Majerus children: Kai, Kara and Nic.

aphids, and they are thus well regarded by farmers and gardeners. Indeed, the introduction of *Rodolia cardinalis*, from Australia into California, in 1888, to control the cottony cushion scale insect, *Icerya purchasi*, which threatened the citrus industry, is widely regarded as the first and still one of the most spectacularly successful instances of biological pest control. In Britain, Kirby and Spence, in their *An Introduction to Entomology*, noted the usefulness of ladybirds as early as 1815, where their importance in controlling hop aphids is noted. More recently, various supermarket chains have fronted campaigns promoting organic food with images of ladybirds and slogans such as ‘an insect is better than an insecticide’.

Ladybird Names and Myths

Their bright colours and use in pest control place ladybirds among the most widely venerated of animals. An examination of the vernacular names given to ladybirds in different languages shows strong religious connections. In English, the name ladybird is a dedication to Our Lady, The Virgin Mary. They are ‘Our Lady’s birds’. This name is thought to derive from one of the most common species across Europe and Asia, *Coccinella 7-punctata* (Fig. 1.2). This species was introduced into North America in the twentieth century and has



Fig. 1.2. *Coccinella 7-punctata* mating pair. (Helen Roy)

become widely abundant. The red colour is said to represent the red cloak that Mary was usually depicted wearing in old paintings and statues, and the seven spots are for the seven joys and seven sorrows of The Virgin. In some parts of Scotland, ladybirds are still called ladyclocks, the clock being a corruption of cloak.

The dedication to The Virgin Mary is not confined to English. It is common in European languages and, due to the colonising endeavours of the Europeans, has spread around the world. Exell (1991) made a life-long study of the common names given to ladybirds in different tongues. In his *The History of the Ladybird*, he cites some 329 names from 55 languages (Exell, 1991). Of these, about a quarter refer to The Virgin Mary, and another 50 are dedications to God. Other names involve Saint Catherine, Saint James, Saint John, Saint Nicolas, Saint Martin, Heaven, Jesus and the Pope. Strangely, one of the Italian names is *Galineta del Diablo* – The Devil's chicken, from Verona, which is applied to a black ladybird and is unique in its dedication to The Devil.

Although it is difficult to date the origin of many of the names, it is likely that some of the European names pre-date Christianity. Indeed, it is notable that The Virgin Mary is not featured in any Celtic language names. In Swedish, *Frejhöna*, *Gullfrigga* and *Gullbagge*, all meaning golden beetle, probably pre-date Christianity (Exell, 1991).

Among the Swedish names is *Himmelska nyckla* – the Keys of Heaven. According to Blackman, The Virgin Mary takes care of the Keys of Heaven. As spring and summer are symbols of Paradise, it is the ladybirds that open the

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gates of Heaven. Professor Blackman's interpretation of the Swedish equivalent of the English 'Ladybird, Ladybird' nursery rhyme:

*Maria Nyckelpiga, flyg hem till ditt land
 dina barn är i fara, hela hunet står i brand*

(Mary's Key Maid, fly to your home country,
 Your children are in danger, your whole house is on fire.)

is that it is a warning to beware the threat of purgatory and the fires of hell.

Dr Exell (1991) notes that the idea of the Keys of Heaven being attributed to The Virgin is contrary to the Bible. In St. Matthew's gospel, chapter 16, verse 19, they are entrusted to Peter:

And I will give unto thee the keys of the kingdom of heaven:
 and whatsoever thou shalt bind on earth shall be bound in
 heaven: and whatsoever thou shalt loose on earth shall be loosed
 in heaven.

Connections with religion are not confined to the Christian world. In Hebrew, the name *Pârat Noshe Rabbênu* – Cow of Moses our Teacher – is used. In Sanskrit, Marathi, Pali and Hindi, dedication is to Indra, the most common name being *Indra Gopa* – Indra's cowherd.

According to Mr Jerry L. King, a gentleman of Cherokee descent, ladybirds enjoy a place of reverence in the mythology of that tribe. Two names are given to them. One, *A Weh Sa*, means creature living in water. This name has an unlikely origin. Because ladybirds are carnivorous and patterned orange with black spots, they are associated with the jaguar, and the jaguar is a cat that is very fond of the water. This name is a common term for ladybird, but is considered too familiar to be used in the visible presence of a ladybird. Then, the name *A Giga U E*, meaning Great Beloved Woman would have been used for these most venerated of insects. This was the title of the highest office a woman could hold in the Traditionalist Native Cherokee Government. On ceremonial occasions, the woman holding this office would have her face painted orange with dyes made from bloodroot, bear grease and white kaolin clay, and spotted with 15 black dots using a paste of charcoal, pine tar, bear grease and blue kaolin clay. These markings are possibly based on one of the 15-spotted ladybirds, probably *Hippodamia convergens*, *Hippodamia 15-signata* or *Anatis 15-punctata*. The association between the Great Beloved Woman, the ladybird and the jaguar is of ancient origin, and extends to a fourth creature, the owl. It may pre-date the Cherokee language, which evolved about 4000 years ago, and is one of the oldest living languages.

Not all American Indians show such reverence for ladybirds. Their name in Cheyenne is *Mhoynshimo*, meaning playing-card beetle, and is surely a result of the similarity of the spotty patterns on cards and ladybirds. The name is probably post-colonial (Exell, 1991).

Luck-bringers, Match-makers and Weather-forecasters

There are many old wives' tales associated with ladybirds, some of which may be true, but at least one of which is false. The number of spots on a ladybird does not indicate its age. Once a ladybird becomes adult, it develops its basic colour pattern within about 24 hours, and the number of spots it has does not change thereafter.

Ladybirds are considered both fortune-tellers and lucky omens in many parts of the world. One Italian name, from the Genoa region, is *Porta Fortuna*, meaning luck-bringer. Most commonly they are considered portents of romance. The use of ladybirds as foretellers of love may result from their own reproductive behaviour (Fig. 1.3).

Ladybirds are highly promiscuous. *Adalia 2-punctata* (Fig. 1.4) mate on average 20 times in their main reproductive period. They have strong powers of endurance; a successful mating rarely takes less than an hour and a pair may stay *in copula* for over nine hours, although two to three hours is the norm. Certainly, on a sunny morning in spring or early summer, when one's fancy may turn to thoughts of love, it would not be unusual to find mating ladybirds, for up to 50% of a population may be mating at the same time. Indeed, the word ladybird has been used as a term of endearment, synonymous to



Fig. 1.3. *Psyllobora 22-punctata* mating pair. (© Gilles San Martin.)

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Fig. 1.4. *Adalia 2-punctata* mating pair.

sweetheart. In Shakespeare's *Romeo and Juliet* (Act 1, scene 3), on the instruction of Lady Capulet, the Nurse, calls for Juliet thus:

'What, lamb! What, ladybird! God forbid! Where's this girl? What Juliet!'

Similarly, in *Cynthia's Revels* (Act 2, scene 1) (Jonson, 1599) comes the line:

'Is that your new ruff, sweet ladybird?'

The connection between ladybirds and fertility or love is a strong one. The Scandinavian association with the gods of fertility is now reflected when a young girl finds a ladybird and allows it to run around her hand. The maiden should then observe 'She measures me for my wedding gloves'. This alleged ability of ladybirds to foretell romance is seen in many poems. For example:

This ladyfly I take from off the grass
 Whose spotted back might scarlet red surpass.
 Fly, ladybird, north, south or east or west,

Fly where the man is found that I love best.
 He leaves my hand, see to the west he's flown
 To call my true-love from the faithless town.

While from Eastern England, where some still call ladybirds Bishie Barnie-bees, comes:

Bishie, Bishie Barnabee,

Tell me when my wedding be,
 If it be tomorrow day,
 Take your wings and fly away!
 Fly to east, fly to west,
 Fly to him that I love best.

It is not certain whether ladybirds were dedicated to Bishop Barnabas or to Saint Barnabas. The latter is possible because ladybirds are often associated with fine weather, and Saint Barnabas' Day, in the old calendar, used to fall around Midsummer's Day. However, I think the former derivation more likely, as the name is centred on Norfolk and Suffolk, and Bishop Barnabas hailed from that region. I have been offered two reasons for the dedication to Bishop Barnabas. One is simply that Bishop Barnabas wore a red cloak and a black hat (Forster, pers. comm.). The other notes that Bishop Barnabas was burnt at the stake. As one of the names cited by Exell (1991) is Bishop is Burning, this explanation may have some credibility. However, doubt is again cast by Southey's poem *The Burnie-Bee* (in Newell, 1845) for the Burnie part of the name appears here to be derived from the shiny or 'burnished' appearance of ladybirds.

The Burnie-Bee

Back o'er thy shoulders throw thy ruby shards,
 With many a coal-black freckle deck'd;
 My watchful eye thy loitering saunter guards,
 My ready hand thy footsteps shall protect.

So shall the fairy train, by glowworm light,
 With rainbow tints thy folding pennons fret,
 Thy scaly brest is deep azure dight,
 Thy burnish'd armour deck with glossier jet.

As tellers of the future, ladybirds are also alleged to have the ability to predict the weather and the quality of harvest. In some cases, there appears to be a belief that ladybirds can go further than predicting the weather; they can influence it. From Austria, courtesy of Mrs Gerlinde Southey, comes:

 Ladybird, Ladybird...

*Marienkäfer, Marienkäfer
 Flieg' mach Mariabrunn
 Bring' uns hent' und morgen
 Eine schöne Sunn'!*

The translation is:

Ladybird, ladybird,
 Fly to Mariabrunn,
 Bring us today and tomorrow
 A beautiful sun!

Mariabrunn lies about 12 miles from the Austrian capital and features a miracle-working image of the Virgin Mary, who sends good weather to the Viennese.

In northern Germany, it is thought that if most ladybirds (Maerspart) seen have more than seven spots, the harvest will be poor; if ladybirds with few spots are more abundant the harvest will be good. This belief leads to the request:

Maerspart, fly to heaven,
 Bring me a sack of biscuits,
 One for me, one for thee,
 One for all the little angels.

Ladybirds have even been rumoured to have medicinal properties. Newell (1845) notes ladybirds to be a cure for measles and colic. Others have noted that mashing up a ladybird and putting the pulp into the hollow tooth can treat toothache. Jaeger (1859) reports that he tried this treatment twice, and on both occasions his toothache was immediately relieved.

Ladybirds have a unique position among insects in literature and art. In poetry, ladybirds are well featured, particularly in children's nursery rhymes. They are commonly featured on greeting cards of all sorts, and *C. 7-punctata* has been featured on 43 different postage stamps from around the world; more than any other insect species. I have assembled a collection of over two hundred poems, songs and rhymes featuring ladybirds from all parts of the world. Here I have selected just a smattering. I began this chapter with the best known of all ladybird rhymes. The first two lines are relatively invariant but the second couplet has a number of variations. Gordon (1985) cites two versions, the first from Yorkshire and Lancashire, the second from Scotland.

Ladybird, ladybird, eigh thy way home;
 Thy house is on fire, thy children all roam,
 Except little Nan, who sits in her pan,
 Weaving gold laces as fast as she can.

Ladybird, ladybird, fly away home,
 Your house is on fire, your children's at home
 All but one that ligs under the stone –
 Ply thee home, ladybird, ere it be gone.

The derivatives of this nursery rhyme have found their way into other literature. For example, Beatrix Potter's Mrs Thomasina Tittlemouse shoos out ladybirds from her house with the words 'Your house is on fire, Mother Ladybird. Fly away home to your children.'

Poems and rhymes tend to feature our own enchanted perception of ladybirds. Few reflect much about the ladybirds themselves. One song, however, written by Canada's well-known television naturalist, John Acorn, for his show *The Nature Nut*, is an exception, emphasising the aphid-eating abilities and defensive qualities of ladybirds.

Munching on Aphids

Chorus

Ladybug, ladybug, munching on aphids,
 Your life is so simple, so plain and so vapid.
 Ladybug, ladybug, munching on aphids,
 Your life is so simple, so plain and so vapid.

There's birds in the bushes and there's spiders at wait,
 For them you could soon be the last thing they ate,
 Remember to think when you're plucked from the tree,
 The poison to spew as you bleed from the knee.

Chorus

Hold your head high, step light on those legs,
 Go fearlessly forth – be not in the dregs,
 For you like a skunk with your obvious warning,
 In red and black safety you greet each new morning.

Chorus

John Acorn is an accomplished Blue Grass player and a compulsive composer. I recall that one day, while searching for rare, high alpine species in the Canadian Rockies, we had some discussion of the different pronunciations that he and I use for ladybirds/ladybugs. On my return to England, I found this composition in my e-mail.

Divided by a Common Language

You say guttAHta and I say guttAYta,
 You say sinuAHta, I say sinuAYta,

 Ladybird, Ladybird...

You say MyZEa, I say, MIZeeah,
 Its hard to know which one of us is keeping the other busier.

You say maculAHta and I say maculAYta,
 You say punctAHta and I say punctAYta,
 You say HippodAHmia I say HippodAYmia,
 You say Propylea, and who am I to blame ya?

Chorus

An Adalia is a Two-spot, by any other name,
 Septempunctata is C7, or words that mean the same,
 Calvia is the Polkadot, Coccidula is the Snow,
 When it comes to naming ladybugs there's so much more to know...

You say ChiloKORus and I say ChiLOCKorus,
 You say rhinoSERos and I say rhinOSSerus,
 You say PsyloBORa and I say PsyloBORa...too,
 Get out your Robert Gordon, cause that's what it's for (woo woo!).

You say reH-GEE-nah, And I say reE-JYE-nah,
 Your way is cleaner
 But mine rhymes with Va- [Oh! Never mind!].

Chorus

You say AnEEso and I say AnEYEso,
 You say conVERgens and I say CONvergens,
 You say transversoguttata and I say transversoguttatatata,
 It's nice to know for all of us the confusion never ends.

Chorus

John Acorn, 2000 (previously unpublished).

Contemporary poets have also not ignored ladybirds. Following publication of results showing that genetically modified potatoes containing an anti-aphid gene from snowdrops can have adverse effects on ladybirds (Birch et al., 1999), this poem appeared on the internet.

Lacewings and ladybirds, mind where you roam.
 The plants are all poisoned that once were your home.
 They've spliced in a toxin to kill off all pests.

Now friendly bug-eaters will die like the rest.
 Ladybird, ladybird, have your children all flown?
 The food chain is poisoned – we're left here alone.

Anon