Morus alba
White mulberry

Morus alba leaves and immature fruit. (Photo provided by TNC.)

Introduction
The genus *Morus* contains approximately 16 members, occurring primarily in northern temperate regions with some extending into tropical areas of Africa and the South American Andes. There are 11 species distributed widely in China [194].

Species of *Morus* in China

Scientific Name	Scientific Name
M. alba L.	*M. nigra* L.
M. australis Poir.	*M. notabilis* Schneid.
M. cathayana Hemsl.	*M. serrata* Roxb.
M. liboensis S. S. Chang	*M. trilobata* (S. S. Chang) Cao
M. macroura Miq.	*M. wittiorum* Hand.-Mazz.
M. mongolica (Bur.) Schneid.	

Taxonomy
Family: Moraceae
Genus: *Morus* L.

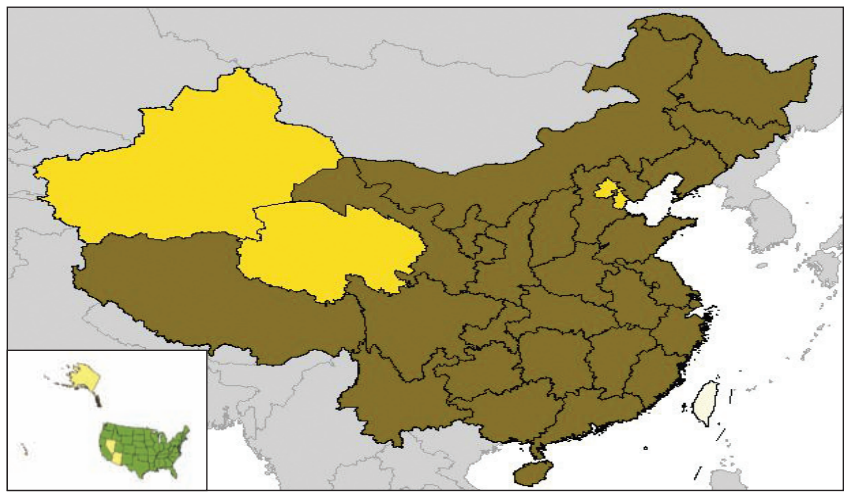
Description
Morus alba is woody tree or shrub that can reach 3-10 m in height and 0.5 m in diameter. The bark is gray, thick, with many irregular longitudinal cracks. The ovate winter buds are reddish brown, bearing grayish brown, imbricate bud scales that are coated with hairs resembling those on the twig surface. Ovate or broad ovate, 5-15 cm long and 5-12 cm wide , the leaves are sparsely pubescent along the lower surface veins, with serrate margins, acuminate apices, abruptly acute or obtuse, and rounded or subcordate bases. Pubescent, green unisexual flowers emerge with leaves in April to May, blooming axillarily. Deep purple to red subovate, syncarpous fruits develop from May to August[194].

Habitat and Distribution
Morus alba is native to central and northern China, and is now cultivated nationwide. It also occurs naturally in sparse forests on hillsides at a wide range of elevation. Due to its long history of cultivation, the species has many varieties [68][194].

Economic Importance
Mulberry leaves are well-known as food for silkworms, the silk-producing larvae of the silkworm moth, *Bombyx mori* L. Other plant parts are used in making textiles, paper, pesticides, furniture, musical instruments, sculptures, medicines[194].

Related Species
Morus alba var. *multicasulis* (Perrott.) Loud. has larger, thicker, wrinkled leaves about 30 cm in length. The syncarp is greenish white to purple when mature. It is cultivated in Jiangsu, Shaanxi, Sichuan, and Zhejiang [194].

Natural Enemies of *Morus*
At least 61 species of fungi are reported to infect members of the genus *Morus*. Fifty-four of them infect white mulberry. At least 263 species of arthropods belonging to 56 families and seven orders, have been reported to occur on white mulberry.



Fungi

Phylum	Family	Species	H. R.	Ref.
Ascomycota	Botryosphaeriaceae	*Botryosphaeria rhodina* (Berk. & M.A. Curtis) Arx	p	23[I]
	Dothioraceae	*Pringsheimia mori* Hara	m	23
	Erysiphaceae	*Phyllactinia moricola* (Henn.) Homma	p	22
			p	23
			p	23
		Phyllactinia pyri (Castagne) Homma	po	22
		Uncinula mori I. Miyake	o	22
			m	23
	Helotiaceae	*Mitrula shiraiana* (P. Henn.) Ito & Imai	m	23
	Massariaceae	*Massaria moricola* Miyake	m	23
		Massaria phorcioides Miyake	m	23
	Meliolaceae	*Armillaria mellea* (Vahl) P. Kumm	p	23
	Mycosphaerellaceae	*Mycosphaerella mori* (Fuckel) F.A. Wolf	m	23[II]
			p	23[III]
	Nectriaceae	*Gibberella baccata* (Wallr.) Sacc.	oo	23
			o	23[IV]
	Phyllachoraceae	*Phyllachora moricola* (P Henn.) Saw	mo	23
	Pleosporaceae	*Pleospora tarda* E.G. Simmons	p	23[V]
		Botryotinia moricola (I. Hino) W. Yamam.	mo	23[VI]
	Sclerotiniaceae	*Ciboria carunculoides* (Siegler & Jenkins) Whetzel	m	21[1]
		Ciboria shiraiana (Henn.) Whetzel	m	21[1]
		Sclerotinia sclerotiorum (Lib.) de Bary	p	23
	Tubeufiaceae	*Ophiochaeta moricola* (Berl.) Sawada	m	23
	Valsaceae	*Valsa sordida* Nitschke	p	23
	Xylariaceae	*Rosellinia necatrix* Berl. ex Prill.	oo	23
Basidiomycota	Atheliaceae	*Athelia rolfsii* (Curzi) C.C. Tu & Kimbr.	p	23[VII]
	Ceratobasidiaceae	*Thanatephorus cucumeris* (A.B. Frank) Donk	p	23[VIII]
	Corticiaceae	*Corticium salmonicolor* Berk. & Broome	po	23
	Hymenochaetaceae	*Inonotus rheades* (Pers.) Bondartsev & Singer	po	23
		Xanthochrous hispidus (Bull.) Pat.	p	23
	Incertae sedis	*Aecidium mori* Barclay	p	23
		Uredo morifolia Saw.	o	23
	Phakopsoraceae	*Phakopsora fici-erectae* S. Ito & Y. Otani ex S. Ito & Muray.	p	23
	Platygloeaceae	*Helicobasidium mompa* Tanaka	p	23
		Septobasidium tanakae (Miyabe) Boedijn & B.A. Steinm.	p	23
	Polyporaceae	*Fomes fomentarius* (L.) J.J. Kickx	po	23
		Poria moricola L. Ling	m	23
	Septobasidiaceae	*Septobasidium bogoriense* Pat.	p	23

Plasmodiophoromycota	Plasmodiophoraceae	*Plasmodiophora mori* Yenda	oo	23
Anamorphic Ascomycetes		*Aplosporella longipes* Ellis & Barthol.	m	23[IX]
		Aplosporella minor Ellis & Barthol.	m	23[X]
		Clasterosporium mori Syd. & P. Syd.	o	23
		Myxosporella miniata Sacc.	p	23
		Nothopatella chinensis Miyake	p	23
		Rhabdospora curvula Berl.	m	23
Anamorphic *Botryosphaeria*		*Diplodia mori* Westend.	m	23
		Diplodia moricola Cooke & Ellis	m	23
		Diplodia morina Syd. & P. Syd.	oo	23
Anamorphic *Botryotinia*		*Botrytis cinerea* Pers.	p	23
Anamorphic *Diaporthe*		*Phomopsis orientalis* Nom.	o	23
Anamorphic *Gibberella*		*Fusarium lateritium* var. *mori* Desm.	m	23
Anamorphic *Glomerella*		*Colletotrichum morifolium* Hara	m	23
Anamorphic *Guignardia*		*Phyllosticta kuwacola* Hara	m	23
Anamorphic *Leptosphaeria*		*Coniothyrium fuscidulum* Sacc.	m	23
		Phoma morearum Brunaud	m	23
		Phoma morifolia Berl.	m	23
Anamorphic *Melanochaeta*		*Sporoschisma mori* Sawada & Katsuki	m	23
Anamorphic *Mycosphaerella*		*Cercospora missouriensis* Wint.	o	23
		Cercospora moricola Cooke	o	23
		Cercospora snelliana Reichert	oo	23
		Hormodendrum mori Yendo	m	23
		Pseudocercospora mori (Hara) Deighton	o	23[XI]
			o	110
		Septoria kuwacola Yendo	m	23
Anamorphic Mycosphaerellaceae		*Ascochyta moricola* Berl.	m	23
		Ascochyta morifolia Sawada	m	23
Anamorphic *Phyllactinia*		*Ovulariopsis moricola* Delacr.	m	23

[I] Recorded as *Diplodia natalensis* Evans
[II] Recorded as *Mycosphaerella morifolia* Pass.
[III] Recorded as *Septogloeum mori* Briosi et Cav.
[IV] Recorded as *Gibberella baccata* (Wallr.) Sacc. var. moricola (de Not.) Wollenw.
[V] Recorded as *Stemphylium botryosum* Wallr.
[VI] Recorded as *Sclerotinia moricola* Hino
[VII] Recorded as *Corticium centrifugum* (Lév.) Bres.
[VIII] Recorded as *Corticium sasakii* (Shirai) Matsum.
[IX] Recorded as *Haplosporella longipes* Ell. et Barth.
[X] Recorded as *Haplosporella minor* Ell. et Barth.
[XI] Recorded as *Cercospora mori* Hara

Arthropods

Order	Family	Species	H. R.	Ref.
Acariformes	Eriophyidae Tarsoneomidae	*Aculus meliae* Kuang et Zhuo	p	83
		Leipothrix bombycis Huang	m	83
		Panonychus citri (McGregor)	p	85
		Panonychus ulmi (Koch)	p	85
		Polyphagotarsonemus latus (Bank)	p	85
	Tetranychidae	*Brevipalpus obovatus* Donnadieu	p	85
		Eotetranychus smithi Pritchard et Baker	p	143
		Eotetranychus suginamensis (Yokoyama)	p	143
		Petrobia latens (Müller)	p	85
			p	143
		Tetranychus agropyronus Wang	p	143
		Tetranychus cinnabarinus (Boisduval)	p	85
		Tetranychus kanzawai Kishida	p	143
		Tetranychus urticae (Koch)	p	85
Coleoptera	Attelabidae	*Paroplapoderus pardalis* Snelle van Vollenhoven	m	85
		Paroplapoderus semiannuletus Jekel	p	85
	Cerambycidae	*Acalolepta permutans* (Pascoe)	p	158
		Aeolesthes holosericea (Fabricius)	p	9
		Allotraeus grahami Gressitt	o	124
		Anaesthetobrium luteipenne Pic	m	9
		Anoplophora chinensis (Förster)	p	9
			p	65
			p	140
			p	158
			p	85
		Anoplophora chinensis macularia (Thomson)	p	9
			p	158
		Anoplophora glabripennis (Motschulsk)	p	85
		Apriona germari (Hope)	p	9
			p	85
			p	140
			p	158
		Aristobia hispida (Saunders)	p	65
			p	85
		Aromia moschata (Linnaeus)	p	65
		Batocera horsfieldi (Hope)	p	9
			p	85
			p	158
		Batocera lineolata Chevrolat	p	65
			p	140
		Ceresium sinicum White	p	9
			p	85
		Chlorophorus sexmaculatus (Motschulsky)	p	85
		Clytobius davidis (Fairmaire)	p	124
		Coscinesthes porosa Bates	p	9
			p	65
			p	140
		Epepeotes luscus Fabricius	p	124

		Epepeotes uncinatus Gahan	p	124
		Exocentrus guttulatus subconjunctus (Gressitt)	p	79
		Glenea centroguttata Fairmaire	m	9
			m	140
		Linda artricornis Pic	m	85
		Macrochenus guerini White	p	124
		Mallambyx raddei (Blessig)	p	9
			p	85
		Megopis severini Lameere	m	79
		Megopis sinica ornaticollis White	p	79
			p	85
		Megopis sinica White	p	9
			p	85
		Menesia subcarinata Gressitt	m	85
		M*esosa perplexa* Pascoe	m	9
		Microlenecamptus biocellatus (Schwarzer)	m	79
		Oberea formosana Pic	p	9
		Oberea fuscipennis Chevrolat	p	9
			m	85
		Oberea japonica (Thunberg)	p	9
			m	85
			p	158
		Olenecamptus bilobus (Fabricius)	p	9
		Olenecamptus clarus Pascoe	m	9
			m	85
			p	85
		Olenecamptus cretaceus Bates	p	85
		Paraglenea fortunei (Saunders)	p	9
			p	65
			p	85
			p	140
		Philus antennatus (Gyllenhal)	p	85
			p	158
			p	9
		Psacothea hilaris (Pascoe)	p	9
			p	65
			p	85
			m	85
			p	140
Coleoptera	Cerambycidae		p	158
		Psacothea tonkinensis (Aurivil)	m	9
			m	85
		Pterolophia annulata (Chevrolat)	m	9
		Pterolophia rigida (Bates)	p	9
		Ropica subnotata Pic	m	9
			m	85
		Trirachys orientalis Hope	p	9
		Xenolea tomentosa asiatica (Pic)	p	9
		Xylotrechus chinensis Chevrolat	p	9
			m	85
		Xystrocera globosa (Olivier)	p	9
			p	85

	Chrysomelidae	*Chrysomela maculicollis* (Jacoby)	m	65
			p	185
		Clitea metallica Chen	m	85
		Fleutiauxia armata (Baly)	p	185
		Fleutiauxia mutifrons Gressitt et Kimoto	o	185
		Mimastra cyanura (Hope)	p	85
			p	140
			p	158
		Oides decempunctata (Billberg)	m	85
		Phygasia fulvipennis (Baly)	p	185
	Curculionidae	*Calomycterus obconicus* Chao	p	2
		Catapionus viridimetallicus fossulus Motschulsky	m	2
		Chlorophanus sibiricus Gyllenhyl	p	85
		Hypomeces squamosus Fabricius	p	2
			p	85
		Lepropus flavovittatus Pascoe	p	2
		Lepropus lateralis Fabricius	p	2
		Piazomias validus Mostchulsky	p	2
		Pissodes nitidus Roelofs	p	85
		Platymycteropsis mandarinus Fairmaire	p	85
		Sympiezomias velatus (Chevrolat)	p	2
			p	85
			p	85
	Elateridae	*Pleonomus canaliculatus* (Faldermann)	p	85
	Eumolpidae	*Abirus fortunei* (Baly)	p	65
			p	85
			p	139
		Chrysochus chinensis Baly	p	85
	Hispidae	*Taiwania circumdata* (Herbst)	p	65
			m	85
	Melolonthidae	*Holotrichia convexopyga* Moser	p	85
		Holotrichia diomphalia Bates	p	85
		Holotrichia parallela Motschulsky	p	85
			p	85
		Maladera japonica Motschulsky	p	85
		Maladera orientalis Mots	p	85
	Rutelidae	*Adoretus sinicus* Burmeister	p	85
	Scolytidae	*Cryphalus exignus* Blandford	m	182
		Trypodendron lineatum Olivier	p	85
Hemiptera	Coreidae	*Homoeocerus walkerianus* Lethierry et Severin	p	65
			p	85
		Leptocorisa varicornis (Fabricius)	p	192
	Miridae	*Adelphocoris lineolatus* (Goeze)	p	85
			p	192
	Pentatomidae	*Aspongopus chinensis* Dallas	p	192
		Dalpada nodifera Walker	m	85
		Dalpada smargdina (Walker)	p	85
		Halyomorpha halys (Stål)	p	85
		Menida histrio (Fabricius)	p	192
		Placosternum taurus (Fabricius)	p	85
		Plautia crossota (Dallas)	p	65
		Poecilocoris druraei (Linnaeus)	p	65
			p	85
			m	193
		Stollia guttiger (Thunberg)	p	85
			p	192
		Stollia montivagus (Distant)	p	85
		Stollia ventralis (Westwood)	p	85
	Plataspidae	*Megacopta cribraria* (Fabricius)	p	85
			p	192

Homoptera	Aphrophoridae	*Aphrophora intermedia* Uhler	p	85
			p	85
			p	140
		Trigophora obliqua (Uhler)	p	140
	Cercopidae	*Cosmoscarta bispecularis* (White)	p	158
	Cicadellidae	*Drabescus ogumae* Matsumura	m	2
		Empoasca biguttula (Ishida)	p	48
			p	85
		Empoasca flavescens (Fabricius)	p	48
			p	85
		Empoasca pirisuga (Matsumura)	p	48
			m	85
		Erythroneura apicalis (Nawa)	p	48
			p	85[I]
		Erythroneura hirayamella (Matsumura)	p	48
		Erythroneura mori (Matsumura)	p	48
		Erythroneura multipunctata (Matsumura)	p	48
		Eutettix disciguttus (Walker)	p	48
		Hishimonus sellatus (Uhler)	p	85
		Nirvana suturalis Melichar	p	48
		Pseudonirvana orientalis (Matsumura)	m	48
		Tettigoniella albomarginata (Signoret)	p	48
		Tettigoniella ferruginea (Fabricius)	p	48
			p	85[II]
		Tettigoniella spectra (Distant)	p	48
		Tettigoniella viridis (Linné)	p	48
			p	85[III]
			p	85[IV]
		Zygina apicalis (Nawa)	p	85
	Cicadidae	*Cryptotympana atrata* (Fabricius)	p	85
		Cryptotympana mandarina Distant	p	85
		Cryptotympana pustulata (Fabricius)	p	65
		Huechys sanguinea De Geer	p	85
		Platypleura hilpa Walker	p	65
		Platypleura kaempferi (Fabricius)	p	65
			p	85
		Platypleura nobilis (Germar)	p	65
	Cixiidae	*Oliarus apicalis* (Uhler)	p	204
	Coccidae	*Ceroplastes ceriferus* (Anderson)	p	65
			p	85
			p	158
		Ceroplastes japonicus Green	p	65
			p	140
		Ceroplastes pseudoceriferus Green	p	85
		Ceroplastes rubens Maskell	p	65
			p	85

		Chloropulvinaria polygonata (Green)	p	85
		Chloropulvinaria psidii (Maskell)	p	85
		Parthenolecanium persicae (Fabricius)	m	85
	Diaspididae	*Aonidiella aurantii* (Maskell)	p	85
		Chrysomphalus dictyospermi (Morgan)	p	85
		Hemiberlesia lataniae (Signoret)	p	85
		Lepidosaphes tubulorum Ferris	p	85
			p	140
		Pseudaulacaspis pentagona (Targioni-Tozzetti)	p	85
			p	158
	Dictyopharidae	*Dictyophara patruelis* (Stål)	p	85
			p	204
		Dictyophara sinica Walker	p	204
		Orthopagus splendens (Germar)	m	85
			p	204
	Flatidae	*Geisha distinctissima* (Walker)	p	85
			p	204
	Fulgoridae	*Fulgora candelaria* (Linnaeus)	p	204
	Margarodidae	*Icerya purchasi* Maskell	p	65
			p	140
		Icerya seychellarum (Westwood)	p	85
	Membracidae	*Gargara genistae* (Fabricius)	p	85
	Pseudococcidae	*Dysmicoccus brevipes* (Cockerell)	p	85
		Ferrisiana virgata (Cockerell)	p	85
			p	150
		Nipaecoccus vastator (Maskell)	p	85
		Planococcus citri (Risso)	p	65
			p	85
			p	150
		Planococcus sinensis Borchsenius	p	150
		Pseudococcus comstocki (Kuwana)	p	85
			p	150
	Psyllidae	*Anomoneura mori* Schwarz	m	65
			p	85
	Ricaniidae	*Euricania fascialis* Walker	p	204
		Euricania ocellus (Walker)	p	85
			p	204
		Pochazia zizzata Chou et Lu	m	140
		Ricania simulans Walker	p	204
		Ricania speculum (Walker)	p	85
			p	140
			p	204
	Tropiduchidae	*Tambinia debilis* Stål	p	204
Lepidoptera	Arctiidae	*Aloa lactinea* (Cramer)	p	85
		Callimorpha similis (Moore)	p	40
			p	141
		Chionarctia nivea (Ménéntriès)	p	85[V]
		Creatonotos gangis (Linnaeus)	p	40
			p	65
			p	85

			p	158
		Creatonotos transiens (Walker)	p	65
			p	85
			p	141
			p	158
		Hyphantria cunea (Drury)	p	40
		Lemyra infernalis (Butler)	p	40[VI]
			p	158[VI]
		Lemyra melli (Daniel)	p	141[VII]
		Lemyra phasma (Leech)	p	40[VIII]
		Lemyra rhodophila (Walker)	p	40[IX]
			p	65[X]
			p	85[IX]
			p	141[IX]
		Spilarctia casigneta (Kollar)	p	65
		Spilarctia obliqua (Walker)	p	40
			p	85
			p	141
			p	158
		Spilarctia seriatopunctata (Motschulsky)	p	40
			m	85
		Spilarctia subcarnea (Walker)	p	85
			p	141
			p	158
		Spilosoma album (Bremer et Grev)	m	85
		Spilosoma lubricipedum (Linnaeus)	m	85[XI]
			p	141[XI]
			p	158
		Spilosoma punctarium (Stoll)	m	85
		Spilosoma urticae (Esper)	p	40
	Bombycidae	*Bombyx mori* Linnaeus	m	85
			m	207
		Bondotia menciana Moore	m	85
			p	207
		Oberthueria falcigera Butler	p	207
		Oberthüria caeca Oberthür	p	65
		Ocinara apicalis Walker	m	207
		Ocinara bipuncta Chu et Walker	p	207
		Ocinara brunnea Wileman	m	207
		Ocinara nitidoadea Chu et Wang	m	207
		Ocinara signifera Walker	m	207
		Ocinara tetrapuncta Chu et Wang	m	207
		Prismosticta unilhyala Chu et Wang	p	207
		Theophila albicurva Chu et Wang	m	207
		Theophila mandarina Moore	p	85[XII]
			p	141
			p	207

		Theophila ostruma Chu et Wang	p	207
		Theophila religiosa Helfer	p	65
			m	85
			m	207
	Ctenuchidae	*Amata germana* (Felder)	p	65
			p	85
	Geometridae	*Ascotis selenaria dianaria* Hübner	p	85
		Biston marginata Matsumura	p	85
		Bizia aexaria Walker	m	65
			m	85
			m	158
		Culcula panterinaria (Bremer et Grey)	p	85
		Hemerophila atrilineata (Butler)	m	85
		Menophra atrilineata (Butler) ‡	p	65
			m	141
		Ophthalmodes irroratariа Bremer et Grey	p	85
		Ophthalmodes giraffata Guenee	p	158
		Percnia giraffata (Guenée)	p	158
		Phthonosema atrilineata (Butler)	m	85
		Phthonosema tendinosaria Bremer	p	85
		Zamacra excavata Dyar	p	85
	Lasiocampidae	*Malacosoma dentata* Mell	p	85
		Malacosoma neustria testacea Motschulsky	p	85
	Limacodidae	*Cnidocampa flavescens* (Walker)	p	85
		Monema flavescens Walker	p	65
		Parasa consocia Walker	p	85
		Setora postornata (Hampson)	p	85
		Thosea sinensis (Walker)	p	65
			p	158
	Lithosiidae	*Stigmatophora flava* (Bremer et Grey)	p	65
			m	85
			p	158
	Lymantriidae	*Dasychira mendosa* (Hübner)	p	198
		Euproctis bipunctapex (Hampson)	p	65
			p	85
			p	141
			p	158
			p	198
		Euproctis chrysorrhoea (Linnaeus)	p	198
		Euproctis karghalica Moore	p	198
			p	199
		Euproctis montis (Leech)	p	65
			p	85
			p	198
		Euproctis pseudoconspersa Strand	p	85
		Lymantria dispar (Linnaeus)	p	141
			p	198
		Orgyia thyellina Butler	p	198
		Porthesia similis (Fueszly)	p	65
			p	85
			p	198
		Porthesia xanthorrhoea (Kollar)	m	198

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† Possible synonym of *Hemerophila atrilineata* Butler
‡ Possible synonym of *Cnidocampa flavescens* (Walker)
[I] Recorded as *Zygina apicalis* Nawa
[II] Recorded as *Tettigella ferruginea* (Fabricius)
[III] Recorded as *Cicadella viridis* Linnaeus
[IV] Recorded as *Tettigella viridis* Linnaeus
[V] Recorded as *Spilosoma niveus* (Menetries)
[VI] Recorded as *Spilarctia infernalis* (Butler)
[VII] Recorded as *Spilarctia melli* Daniel
[VIII] Recorded as *Alphaea plasma* (Leech)
[IX] Recorded as *Spilarctia rhodophila* (Walker)
[X] Recorded as *Thanatarctia rhodophila* (Walker)
[XI] Recorded as *Spilosoma menthastri* (Esper)
[XII] Recorded as *Bombyx mandarina* Moore
[XIII] Recorded as *Agrotis ypsilon* Rottemberg
[XIV] Recorded as *Barathra brassicae* (Linnaeus)
[XV] Recorded as *Poecilophilides persicariae* Linnaeus
[XVI] Recorded as *Atractomorpha ambigua* Bolivar