

**Sakari Kerppola,  
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Larry Huldén**

**Suomen pikkuperhosten  
levinneisyyskartasto  
(Lepidoptera).**

**Distribution maps of  
Microlepidoptera in  
Finland (Lepidoptera).**



*Eucosma suomiana* (Hoffman, 1893).  
valok. Lauri Kaila/Reino Tyynelä

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SUOMEN PERHOSTUTKIJAIN SEURA ry  
LEPIDOPTEROLOGISKA SÄLLSKAPET I FINLAND rf.

## Suomen pikkuperhosten levinneisyyskartasto (Lepidoptera).

Sakari Kerppola, Anders Albrecht & Larry Huldén

### Distribution maps of Microlepidoptera in Finland (Lepidoptera).

Maps with the records of Finnish Microlepidoptera from different biogeographical provinces are presented. This is an up to-date version of J. Kyrki's original list. Since then 74 species have been recorded as new to Finland and nearly 2000 new provincial records are presented here. They are marked in the maps with black dots. Faunistical changes are mainly based on the annual reports, which were published in the Finnish Lepidopterological Society's journal *Baptria* since 1983.

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### Johdanto

Suomen Perhostutkijain Seuran järjestämässä pikkuperhoskokouksessa Lammin biologisella asemalla keväällä 1977 päätettiin ryhtyä julkaisemaan pikkuperhosten maakuntalevinneisyystaulukkoa. Työn sai tehtäväkseen Jorma Kyrki ja se valmistui hyvin nopealla aikataululla, sillä jo seuraavana vuonna levinneisyystaulukko oli valmis (Kyrki 1978). Aineisto kerättiin maan suurimpien museoiden ja lukuisten yksityiskokoelmien materiaaleista. Näistä havainnoista tarkistettiin erityisen huolellisesti sellaiset äärihavainnot, jotka merkittävästi muuttivat jonkin lajin aikaisemmin tunnettua levinneisyyskuvaa. Muistiinpanoja ja laitosten arkistoja käytiin läpi kriittisesti, jolloin mahdollisesti oikeitakin havaintoja jouduttiin hylkäämään epävarmoina. Myös monia kirjallisuudessa mainittuja levinneisyystietoja pidettiin epäluotettavina.

Levinneisyystaulukon jälkeen ilmestyi vielä kaksi täydentävää tiedonanto-osaa (Kyrki 1979 ja Kyrki et al. 1984a), mutta Jorma Kyrkin äkillinen poismeno keskeytti seuraavan täydennysosan julkaisemisen.

### Uusi päivitys

Vuonna 1984 alkoi Baptriassa ilmestyä vuosittainen pikkuperhostiedonantojen yhteenveto. Näihin yhteenvetoihin (Kaila et al. 1992a, 1992b, 1993a, 1993b, 1995, Kerppola et al. 1985, 1986, 1987, 1989, 1990, 1991a, 1991b) sekä useisiin, lähinnä maalle uusia lajeja käsitteleviin, julkaisuihin (Bruun 1988, Bruun et al. 1988, Itämies et al. 1995, Jalava 1993, Krogerus 1989, Kullberg 1990, 1992a, 1992b, Kyrki et al. 1984b, 1984c, 1985a, 1985b, Laasonen et al. 1984, 1986a, 1986b, 1988, Nupponen et al. 1987, 1993a, 1993b) perustuu nyt käsillä oleva pikkuperhosten levinneisyyden uusi päivitys, jossa kunkin lajin levinneisyys luonnontieteellisiin maakuntiin on esitetty omana karttanaan. Mukana on myös joitakin viime hetken tietoja, jotka julkaistaan tarkemmin vuoden 1995 mikrotiedonantojen yhteydessä. Kyrkin levinneisyystaulukon jälkeen on ilmoitettu lähes 2000 uutta maakuntahavaintoa (merkitty pisteellä) ja maalle uusia pikkuperhoslajeja peräti 74 kpl. Nimistö on uuden Suomen perhosten luettelon mukainen (Varis (ed.) 1995). Luonnontieteelliset maakunnat on esitetty kuvassa 1.

## Importit

Seuraavista importeiksi tulkituista lajeista ei ole esitetty levinneisyyskarttaa:

*Tinea pallescentella*: V, U.  
*Leucoptera laburnella*: U.  
*Opogona sacchari*: V, U.  
*Caloptilia azaleella*: V, U, EH.  
*Sitotroga cerealella*: V, U, St, EH, PH.  
*Cacoecimorpha pronubana*: U.  
*Cryptophlebia leucotreta*: U, KP.  
*Cydia injectiva*: PPe.  
*Cydia saltitans*: V, U.  
*Elophila enixalis*: U.  
*Paraponynx diminutana*: U.  
*Oligostigma angulipennis*: U.  
*Oligostigma bilinealis*: U.  
*Corcyra cephalonica*: V, U.  
*Paralipsa gularis*: U, St.  
*Cryptoblabes gnidiella*: U.  
*Ectomyeloides ceratoniae*: V, U, EH, ES, KP.  
*Cadra calidella*: U  
*Lobesia botrana*: U  
*Duponchelia foveicollis*: Ppp

## Pohdintaa

Alkuperäisessä levinneisyystaulukossa olevat tiedot ovat varmasti suurelta osin oikeita. Taulukossa saattaa kuitenkin olla vielä virheellisyksiä, mutta valitettavasti joistakin äärihavainnoista ei ole julkaistuja yksilöityjä tietoja, eikä toistaiseksi ole pystytty jäljittämään mihin ne perustuvat. Myöhemmin julkaistuista tiedonannoista voi myös löytyä määrittämisvirheistä aiheutuvia vääriä havaintoja. Monia ajatuksia on herännyt levinneisyyskartaston parantamiseksi, mutta niihin ei tämän tekijöillä ole ollut mahdollisuuksia. Aineistoa voidaan nyt kuitenkin käsitellä tietokoneella ja tulevaisuudessa kaikki parannukset uusiin päivityksiin ovat helpommin toteutettavissa.

## Kiitokset

Kiitos teknisestä avusta Jorma Kososelle. Esitämme myös parhaat kiitoksemme seuraaville pikkuperhostiedonantoja jättäneille henkilöille:

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 Euranto, E.  
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 Grotenfelt, P.  
 Gustafsson, K.  
 Heikinheimo, O.  
 Helomaa, K.  
 Holmberg, H.  
 Hublin, Ch.  
 Hyttinen, J.  
 Hytönen, O.  
 Hyvärinen, I.  
 Ilonen, T.  
 Itämies, J.  
 Jalas, I.  
 Jalava, J.  
 Junnilainen, J.  
 Järkkä, J.  
 Järvelä, A.  
 Järveläinen, T.  
 Kaare, J.  
 Kaila, L.  
 Kaitila, P.  
 Kaitila, J-P.  
 Kangas, I.

Kangasperko, H.  
 Karvonen, J.  
 Kerppola, S.  
 Koivu M-L.  
 Kontiokari, S.  
 Kontuniemi, I.  
 Korhonen, J.  
 Koski, H.  
 Koskinen, P.  
 Krogerus, H.  
 Kronholm, H.  
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 Lundsten, K.-E.  
 Luoma, H.

Luukkonen, L.  
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 Nissinen, K.  
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 Peltotalo, P.  
 Pitkäranta, H.  
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 Pöyry, J.

Rantanen, M.  
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Roslin, T.  
Rossi, K.  
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Salokannel, J.  
Saloranta, K.  
Sarkkinen, E.  
Savela, M.  
Savonius, S.

Siloaho, R.  
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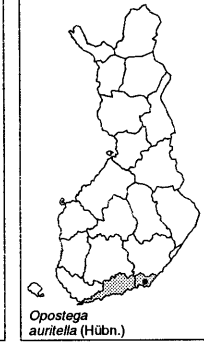
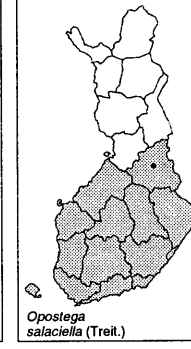
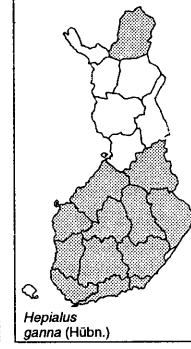
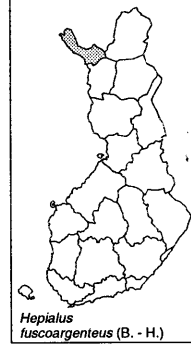
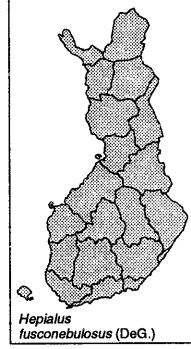
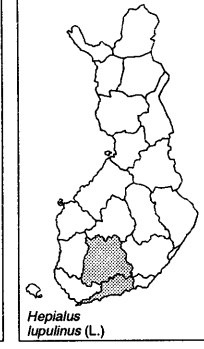
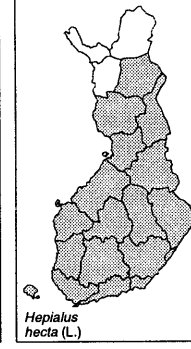
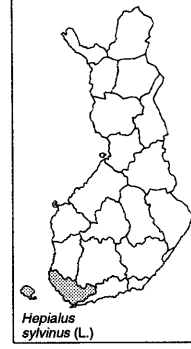
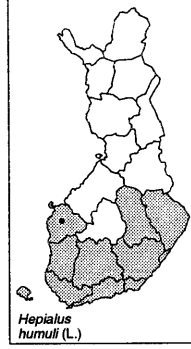
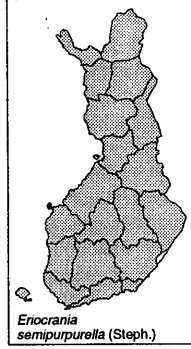
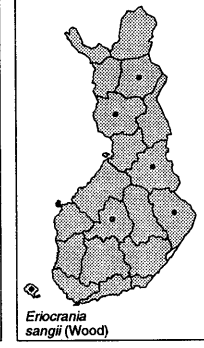
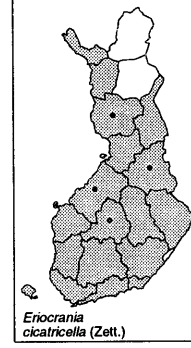
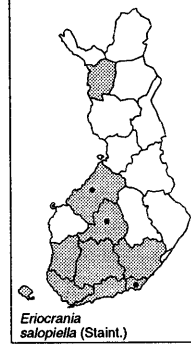
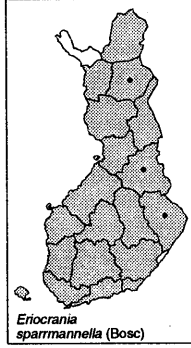
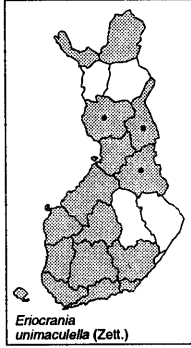
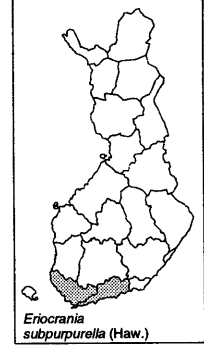
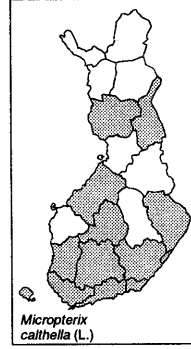
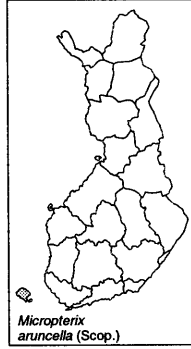
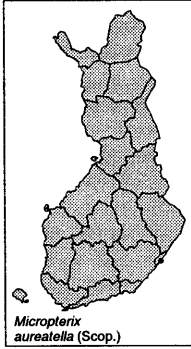
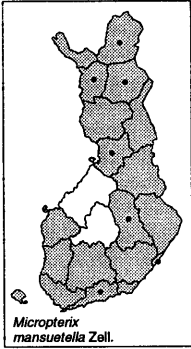
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### Kirjallisuus

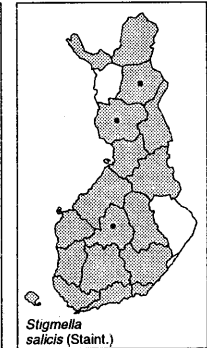
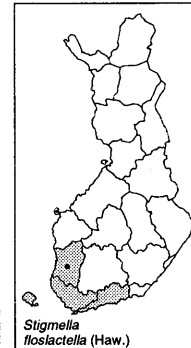
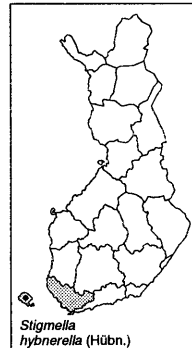
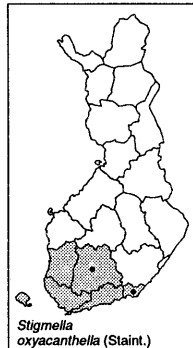
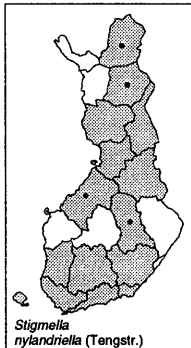
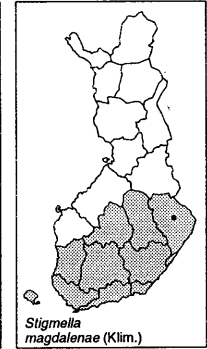
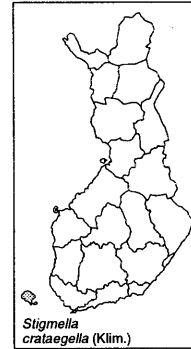
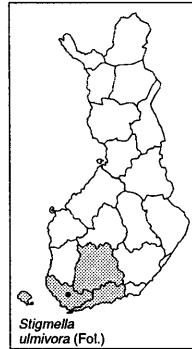
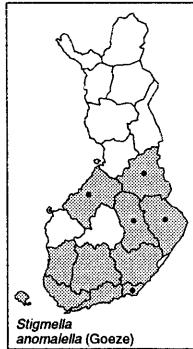
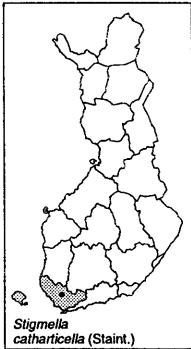
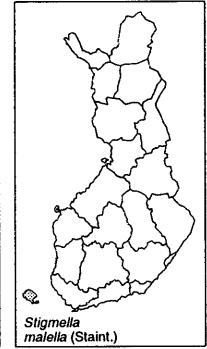
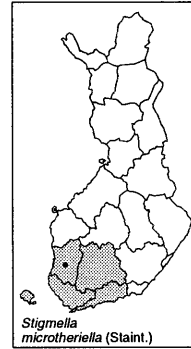
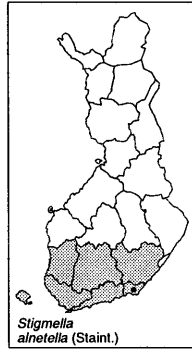
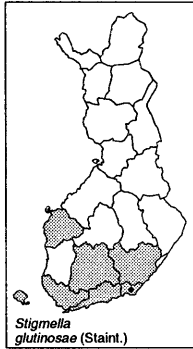
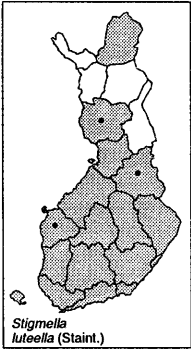
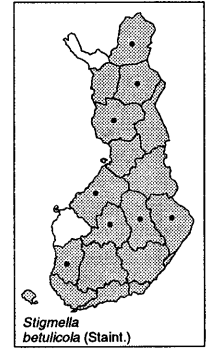
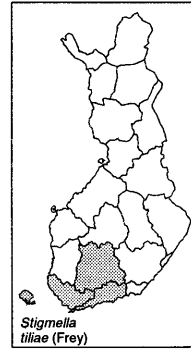
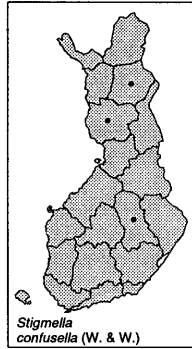
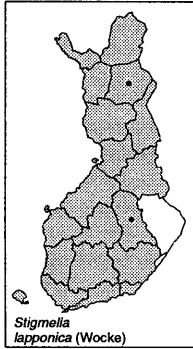
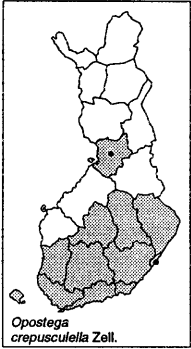
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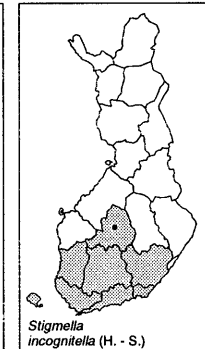
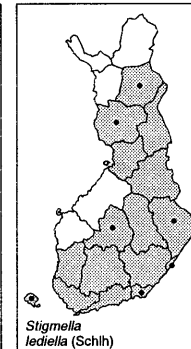
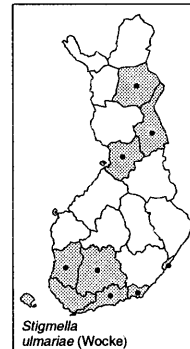
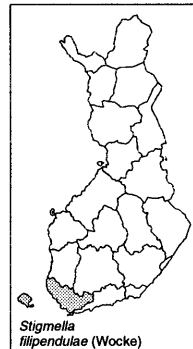
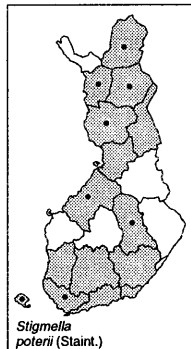
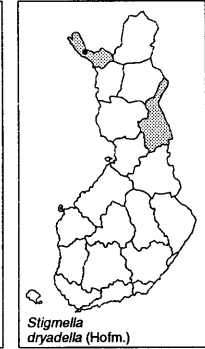
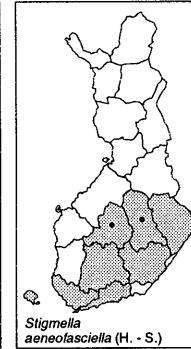
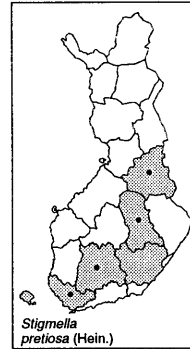
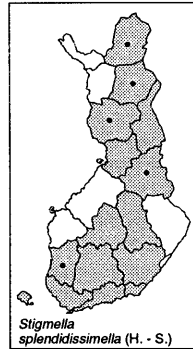
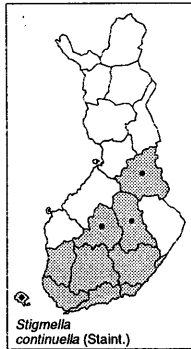
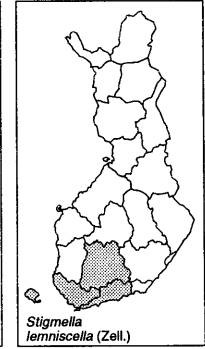
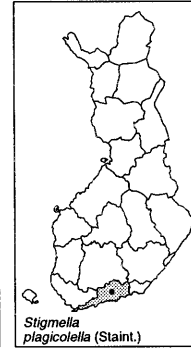
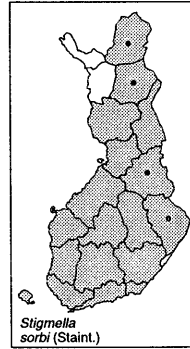
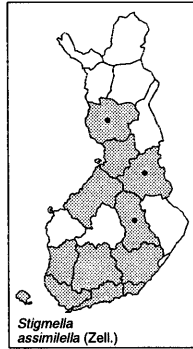
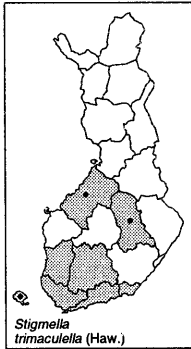
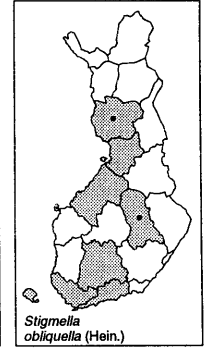
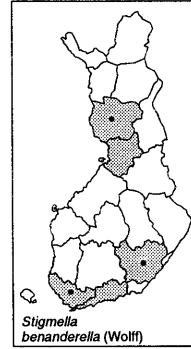
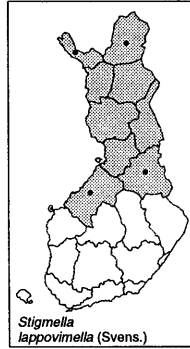
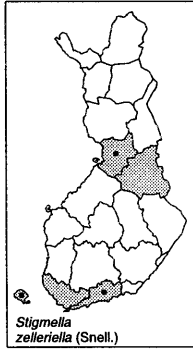
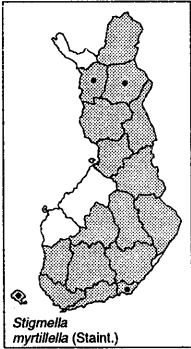
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Baptria 20 (2a), 1995

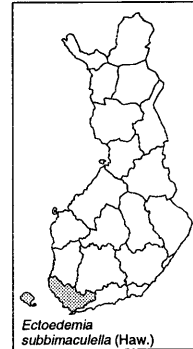
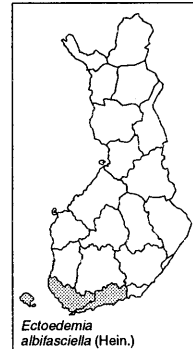
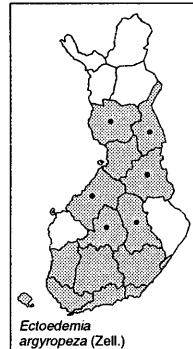
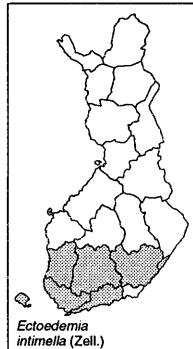
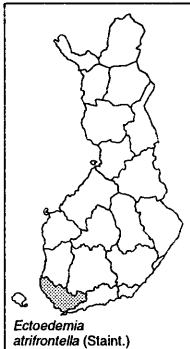
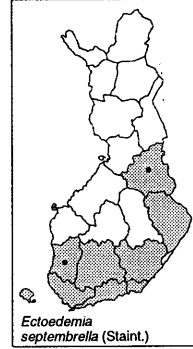
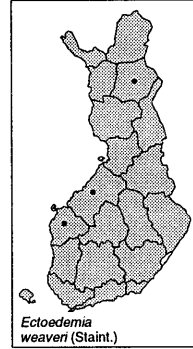
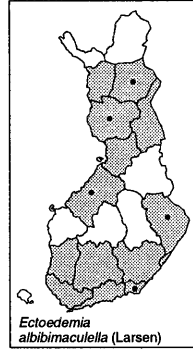
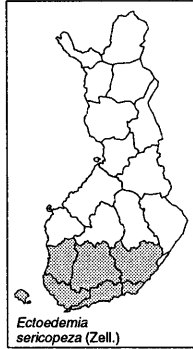
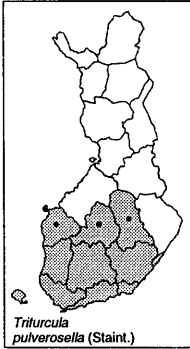
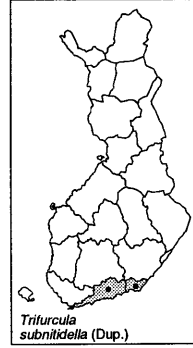
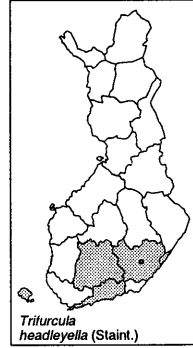
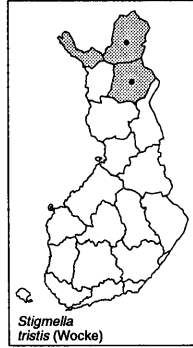
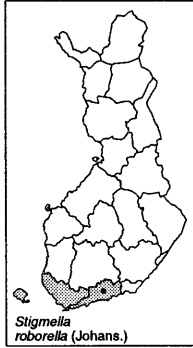
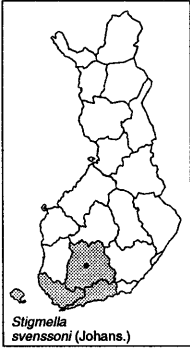
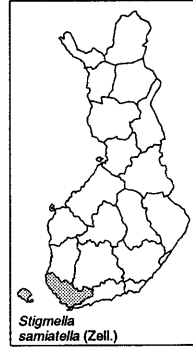
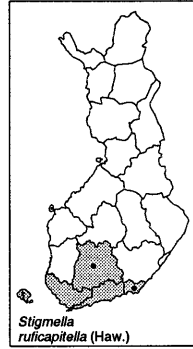
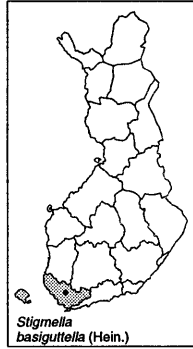
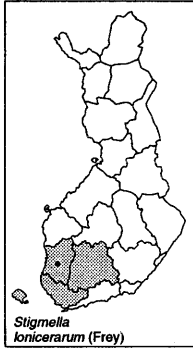
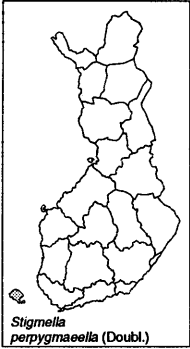


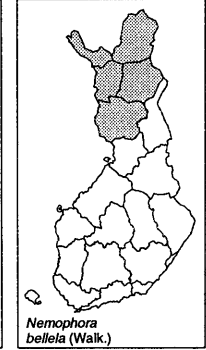
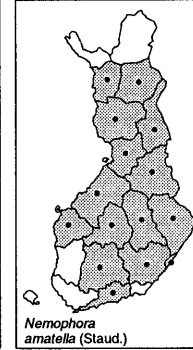
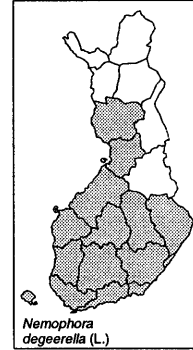
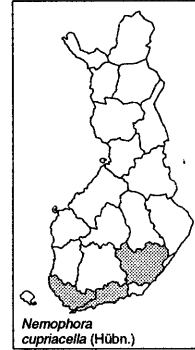
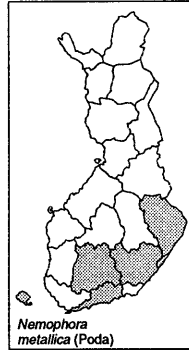
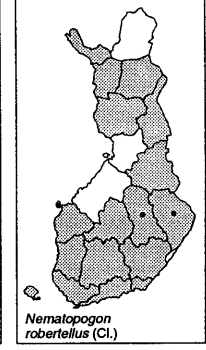
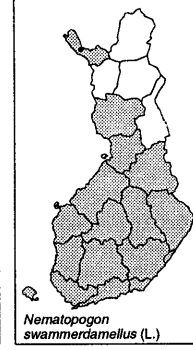
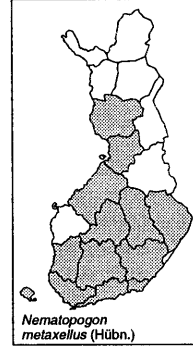
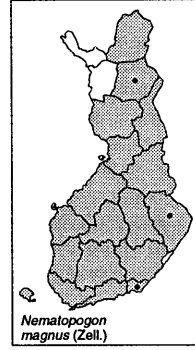
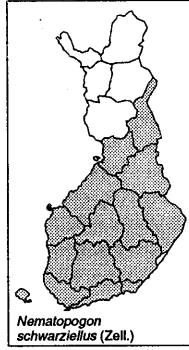
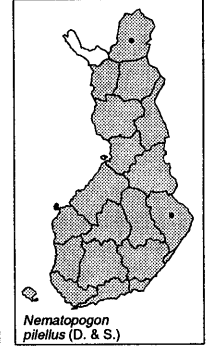
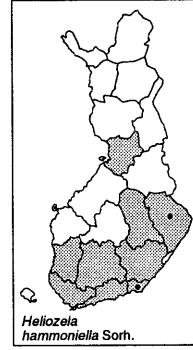
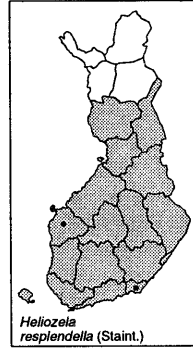
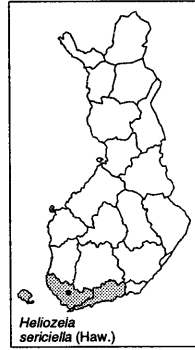
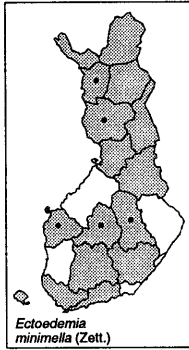
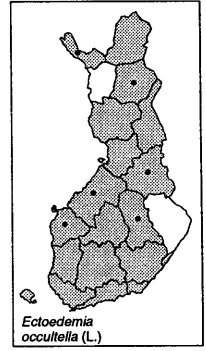
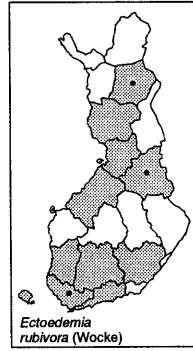
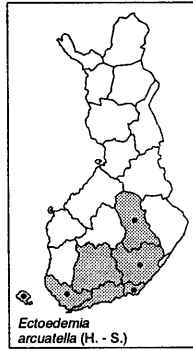
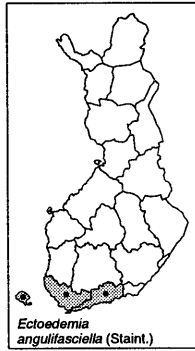
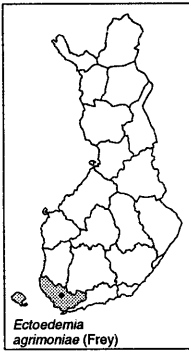
Baptia 20 (2a), 1995

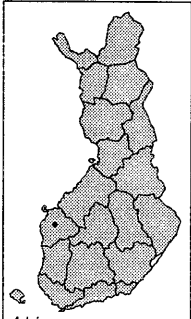




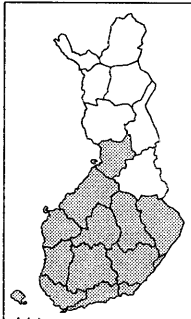




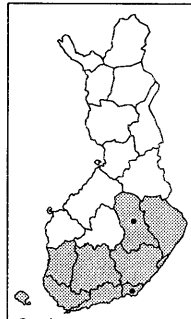




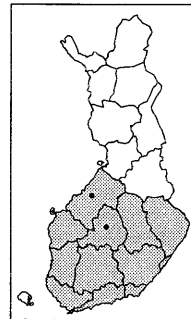
*Adela cuprella* (D. & S.)



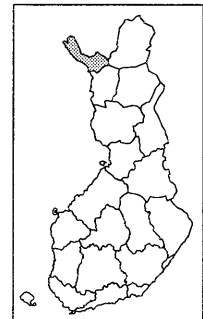
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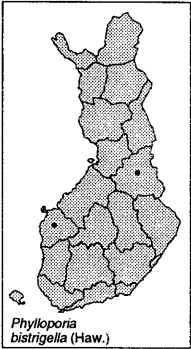
*Cauchas fibulella* (D. & S.)



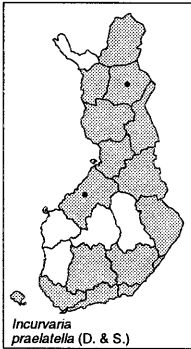
*Cauchas rufimitrella* (Scop.)



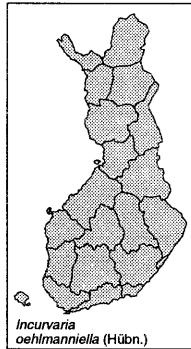
*Cauchas brevientennella* S. N.



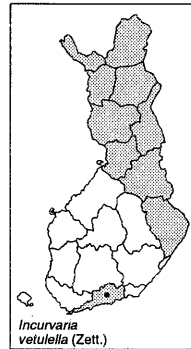
*Phylloporia bistrigella* (Haw.)



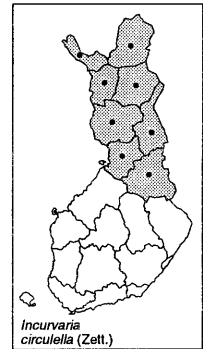
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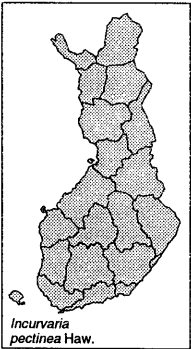
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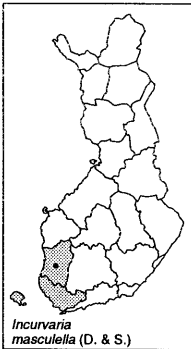
*Incurvaria vetulella* (Zett.)



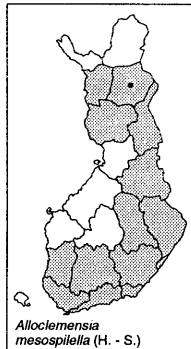
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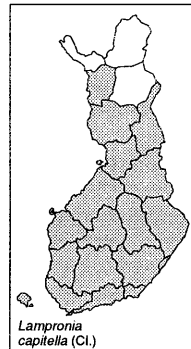
*Incurvaria pectinea* Haw.



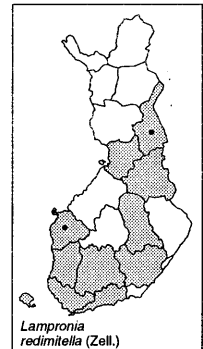
*Incurvaria masculella* (D. & S.)



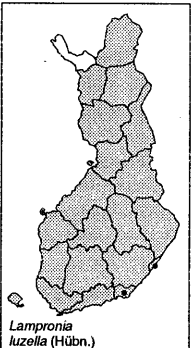
*Alloclemensia mesospilella* (H. - S.)



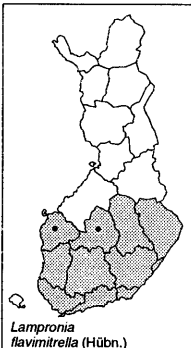
*Lampronia capitella* (Ct.)



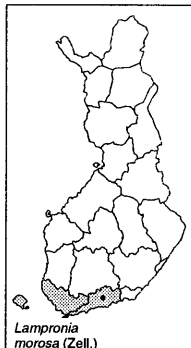
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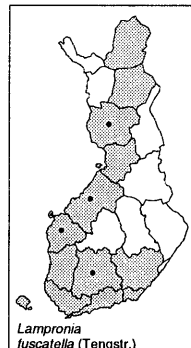
*Lampronia luzella* (Hüb.)



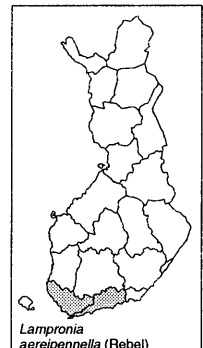
*Lampronia flavimitrella* (Hüb.)



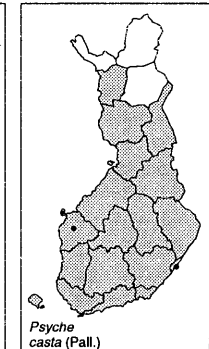
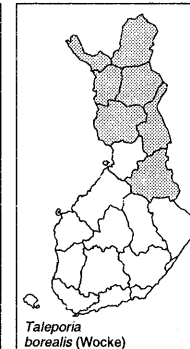
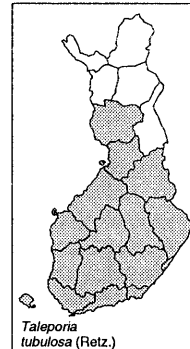
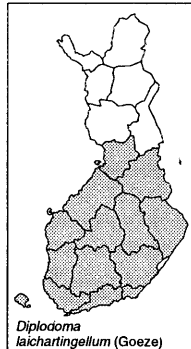
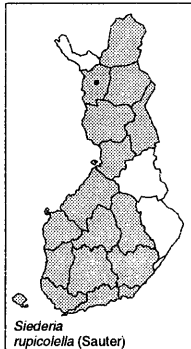
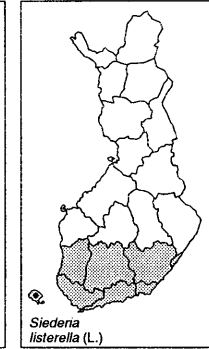
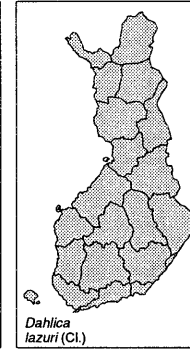
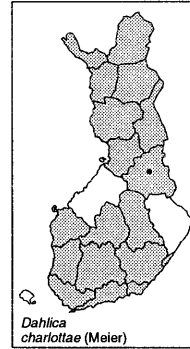
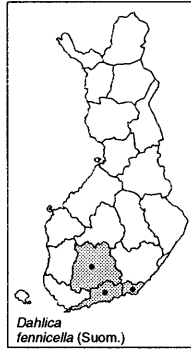
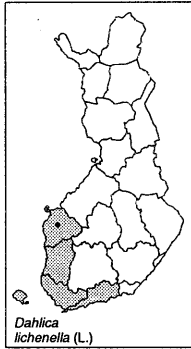
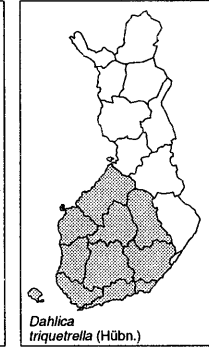
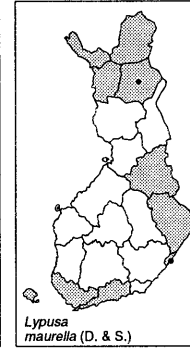
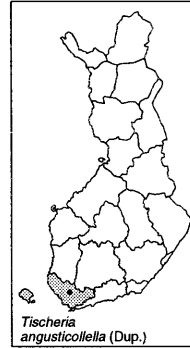
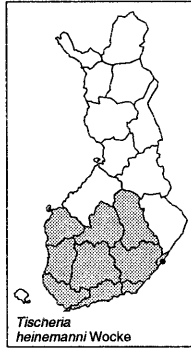
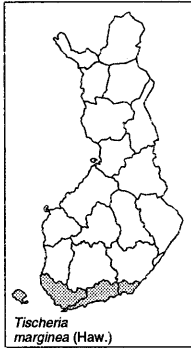
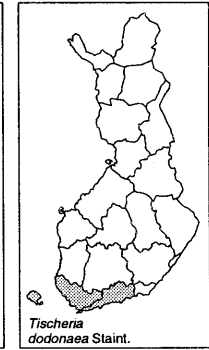
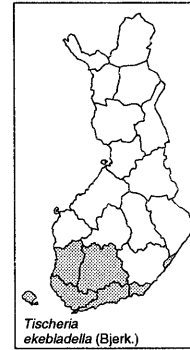
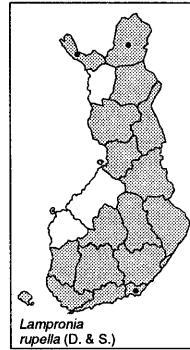
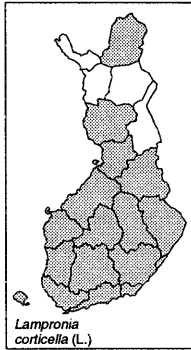
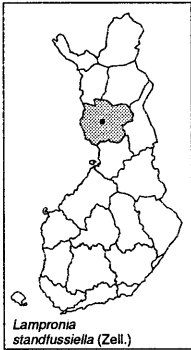
*Lampronia morosa* (Zell.)

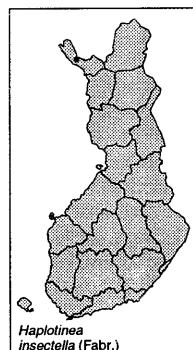
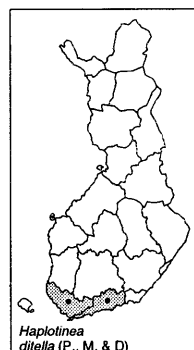
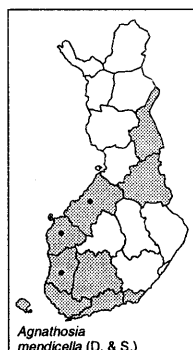
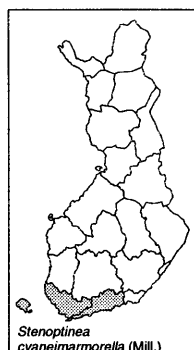
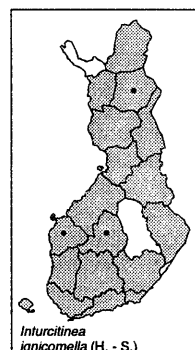
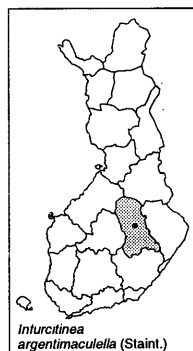
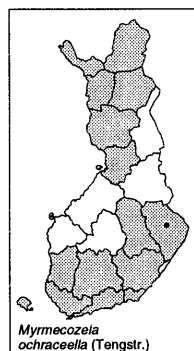
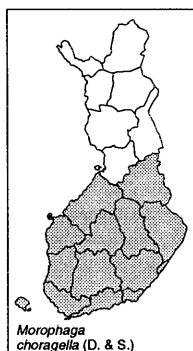
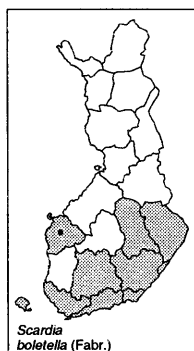
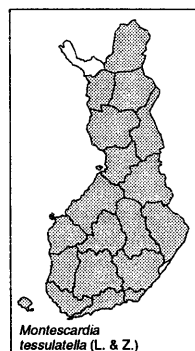
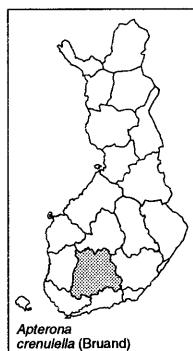
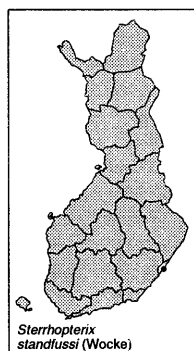
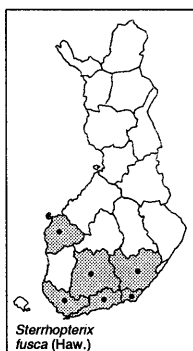
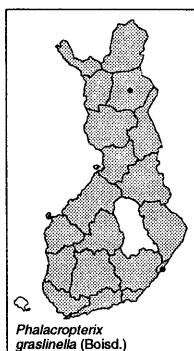
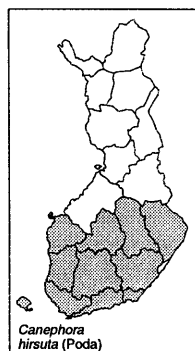
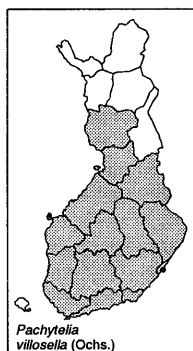
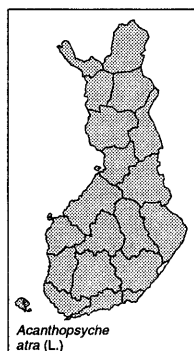
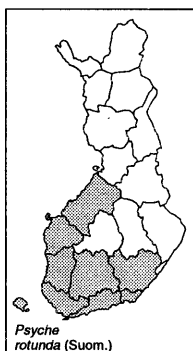
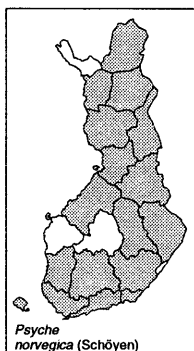
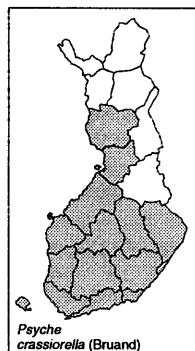


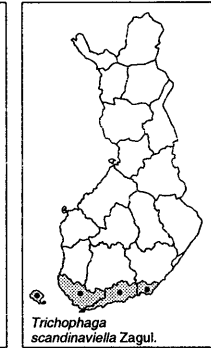
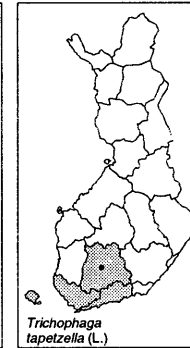
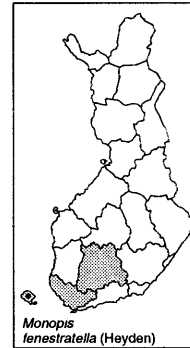
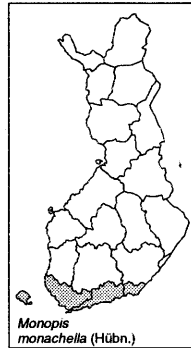
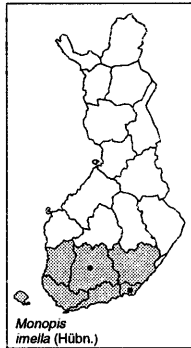
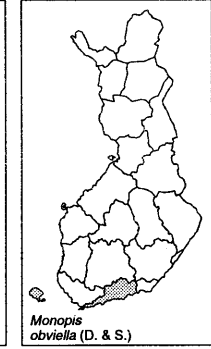
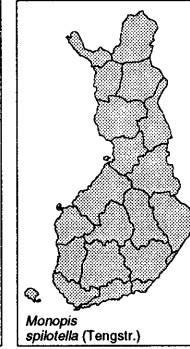
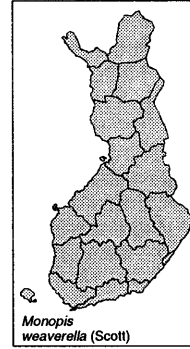
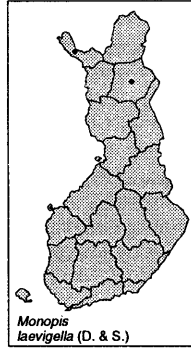
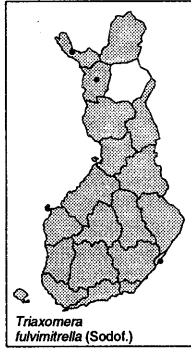
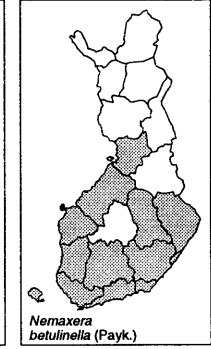
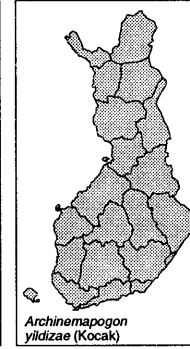
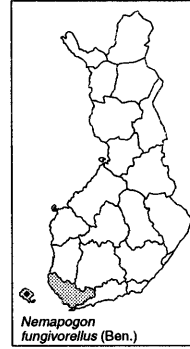
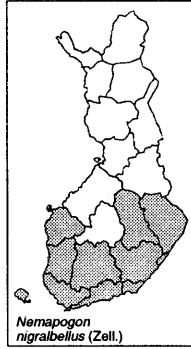
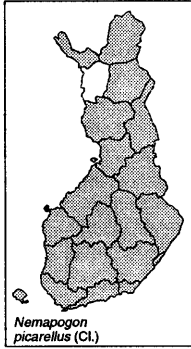
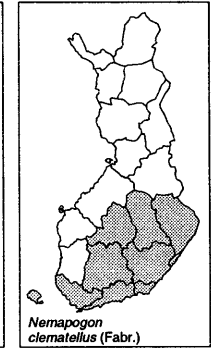
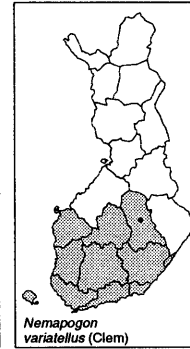
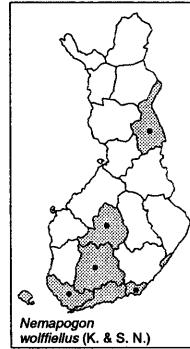
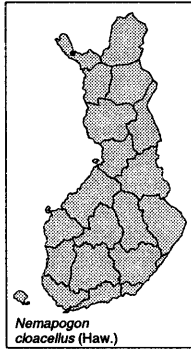
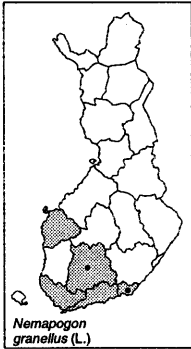
*Lampronia fuscata* (Tengstr.)

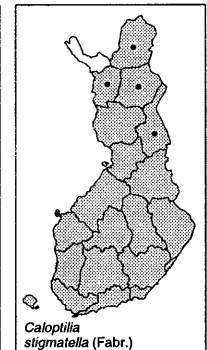
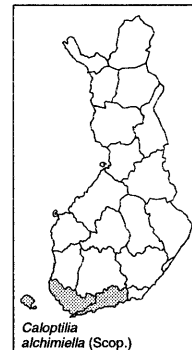
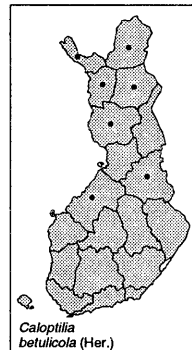
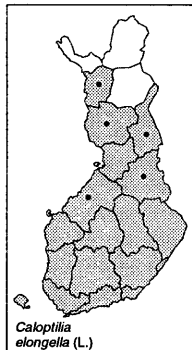
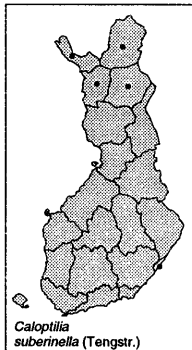
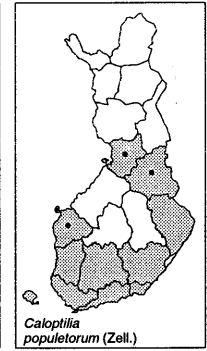
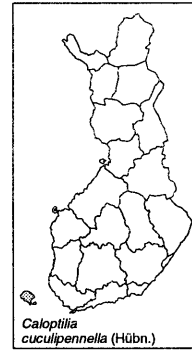
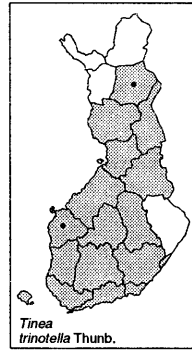
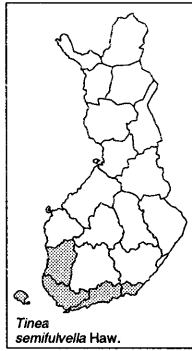
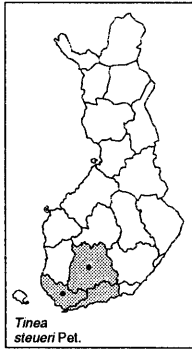
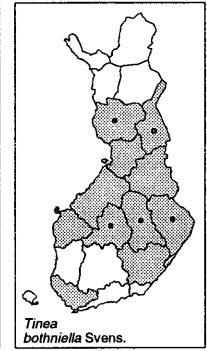
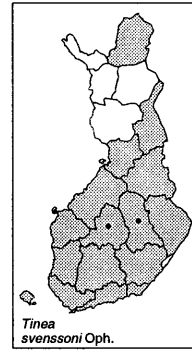
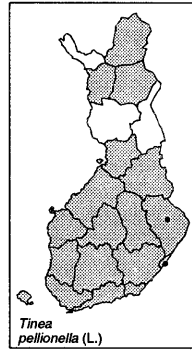
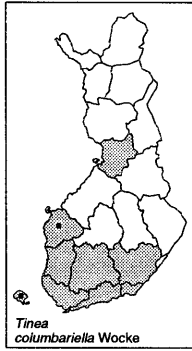
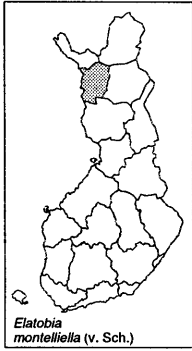
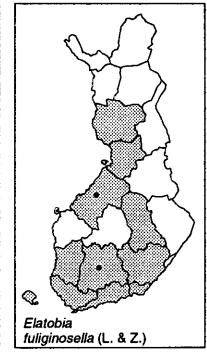
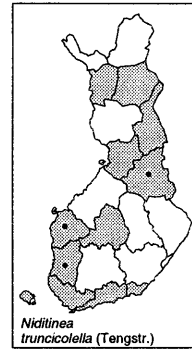
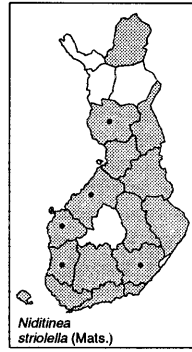
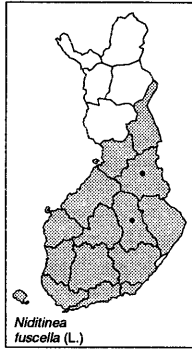
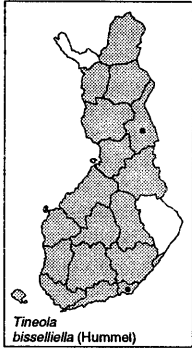


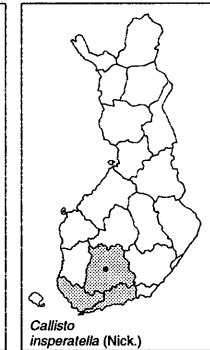
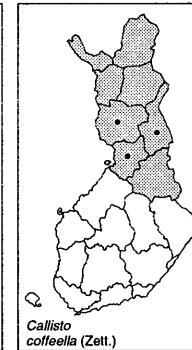
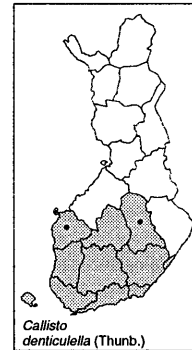
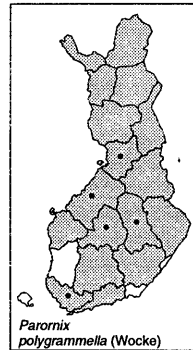
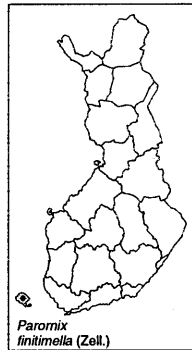
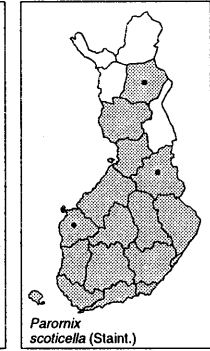
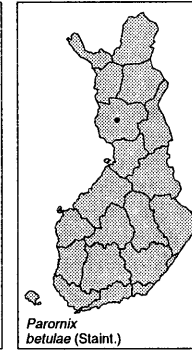
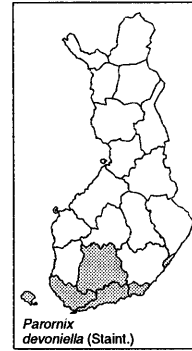
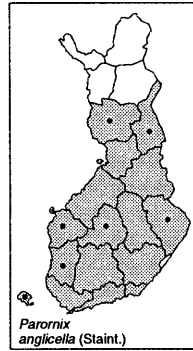
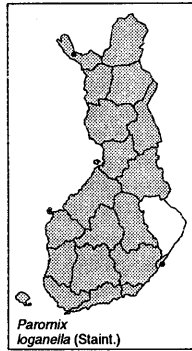
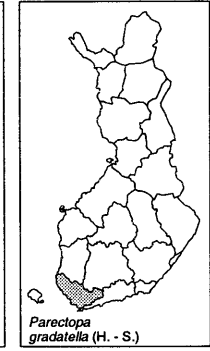
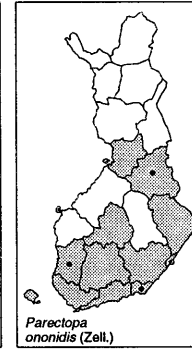
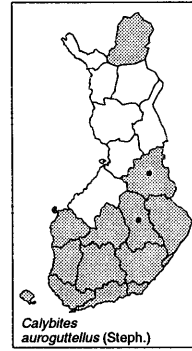
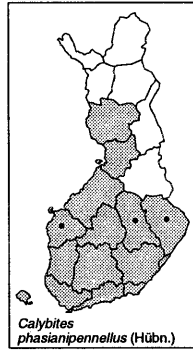
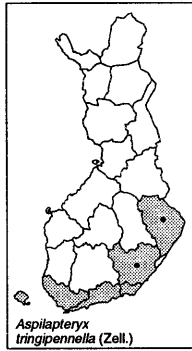
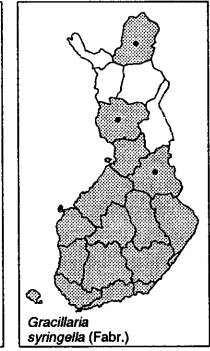
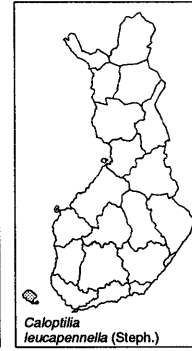
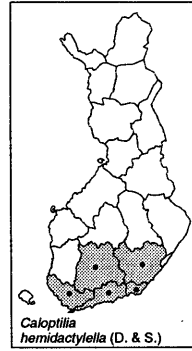
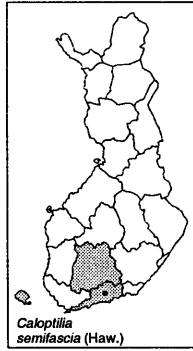
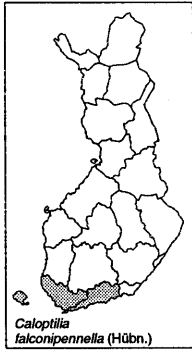
*Lampronia aereipennella* (Rebel)



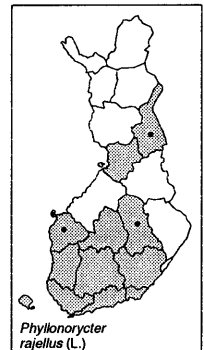
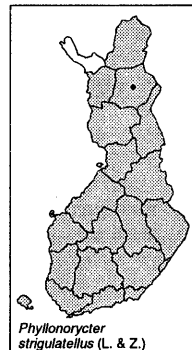
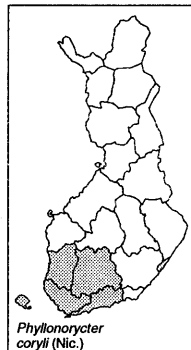
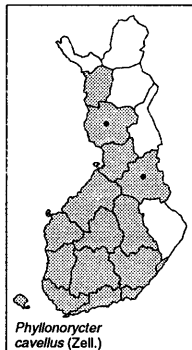
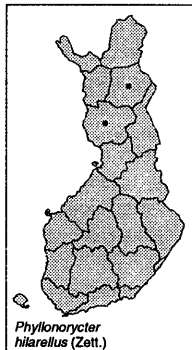
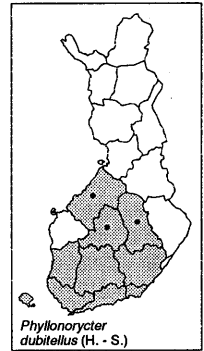
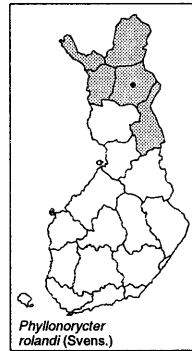
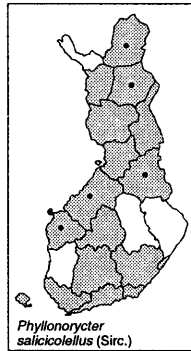
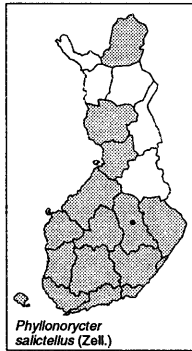
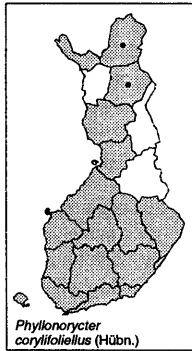
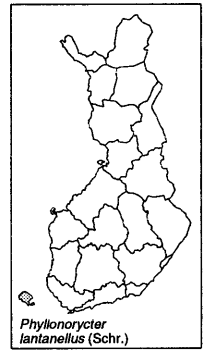
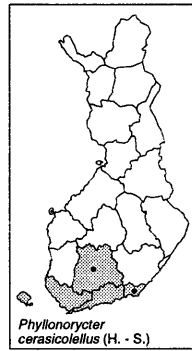
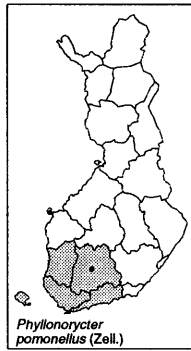
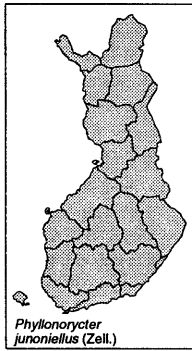
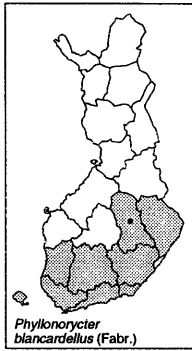
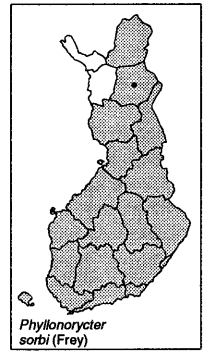
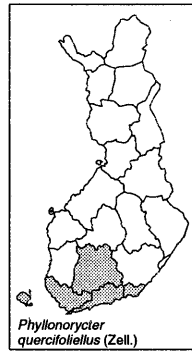
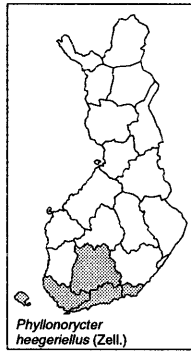
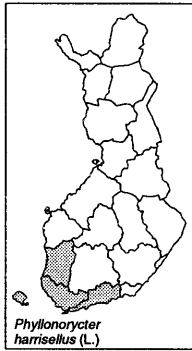
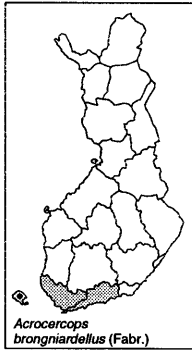


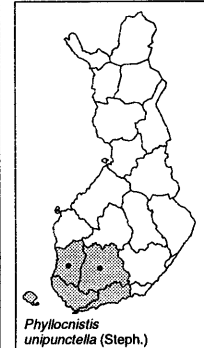
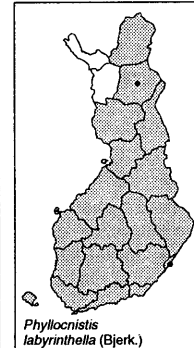
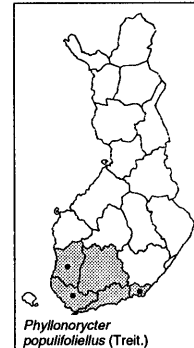
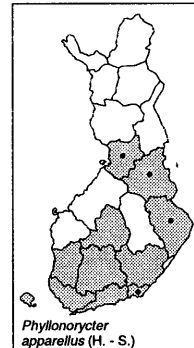
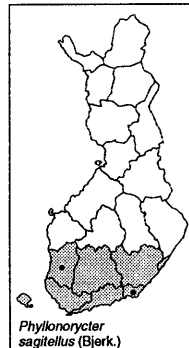
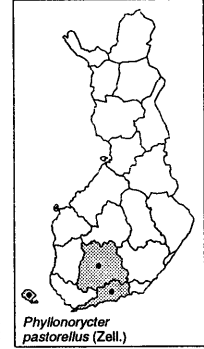
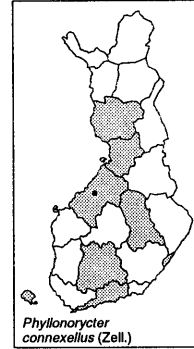
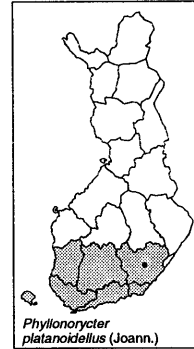
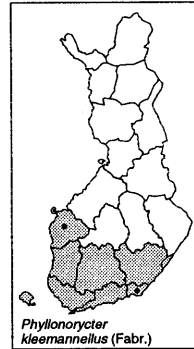
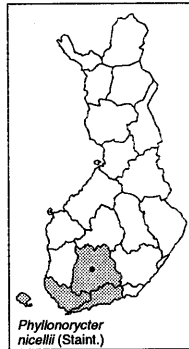
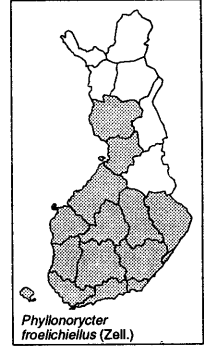
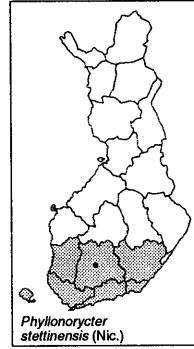
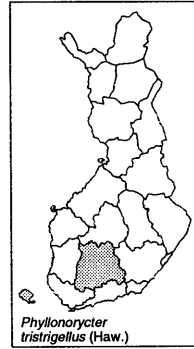
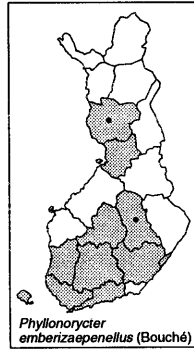
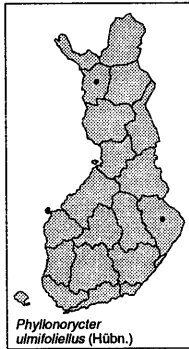
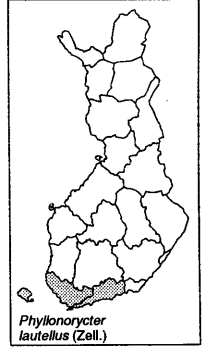
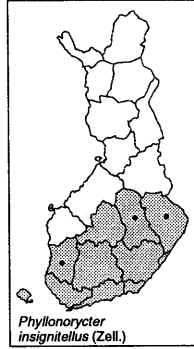
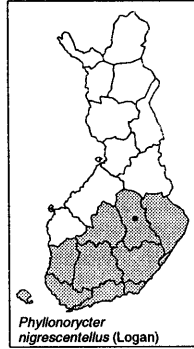
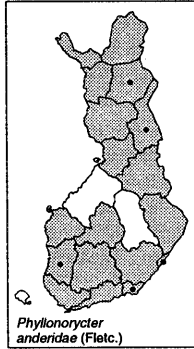
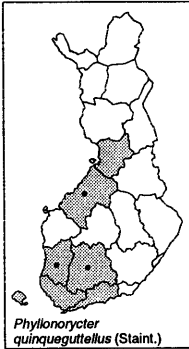


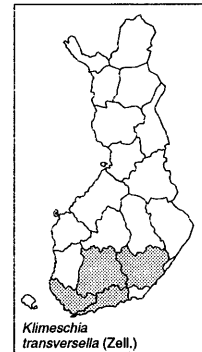
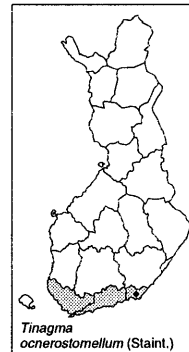
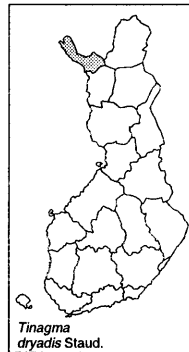
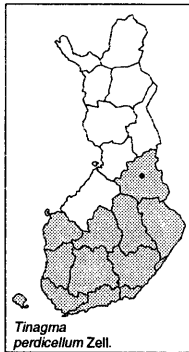
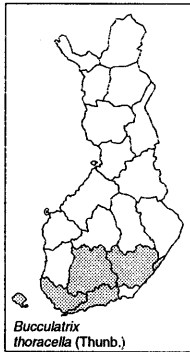
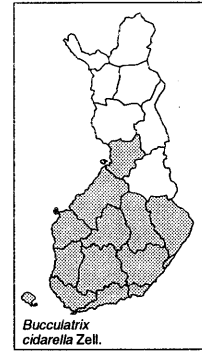
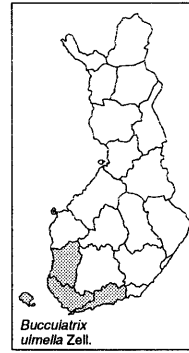
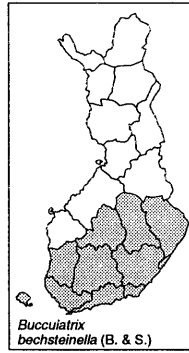
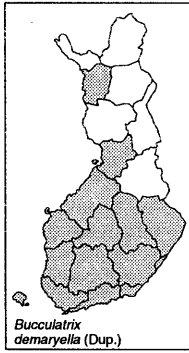
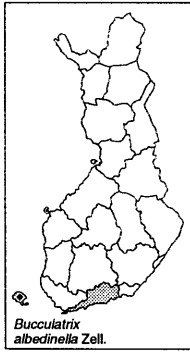
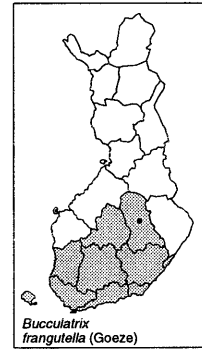
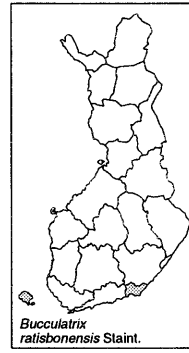
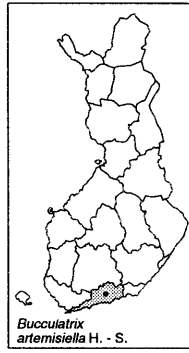
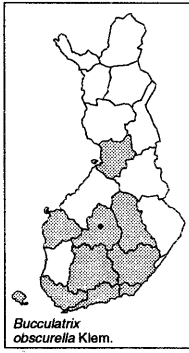
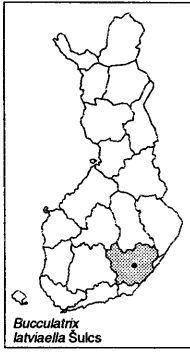
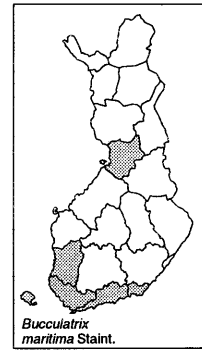
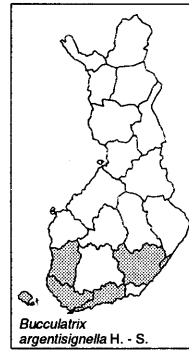
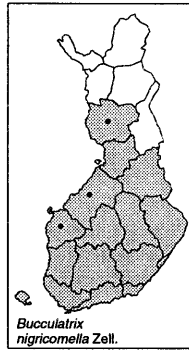
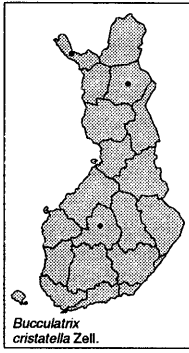
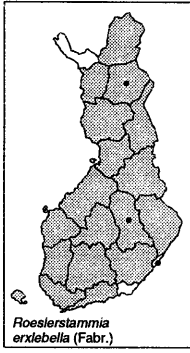


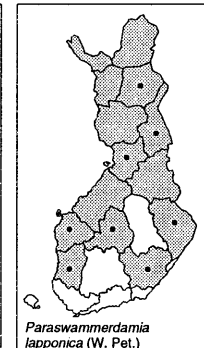
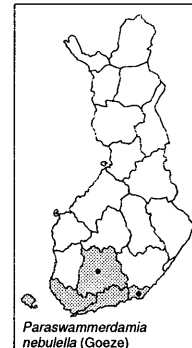
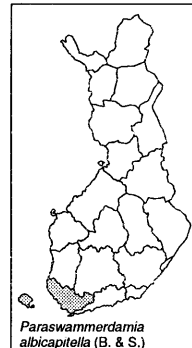
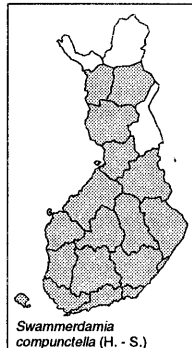
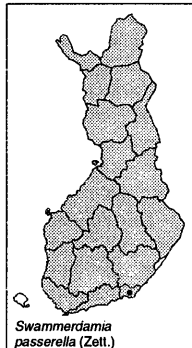
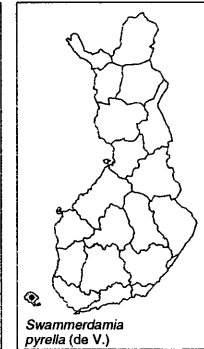
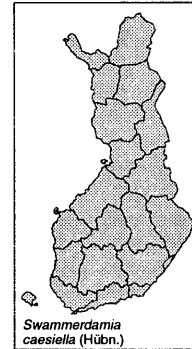
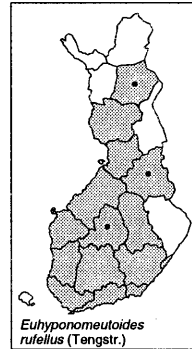
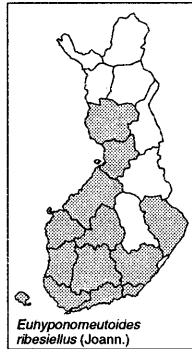
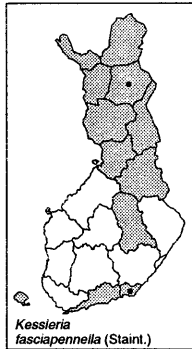
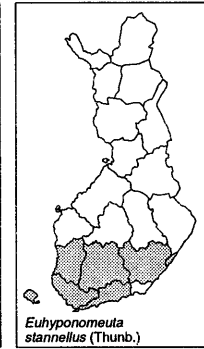
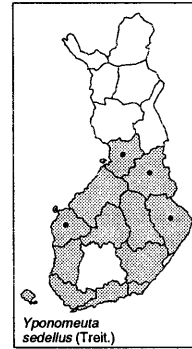
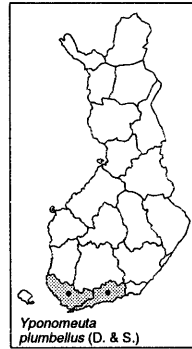
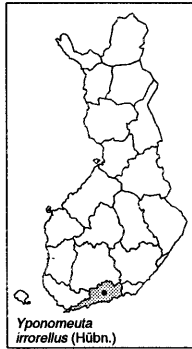
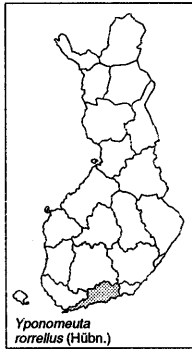
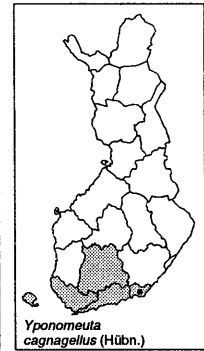
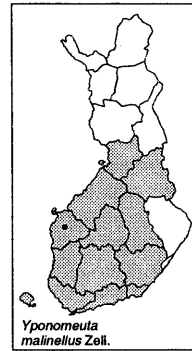
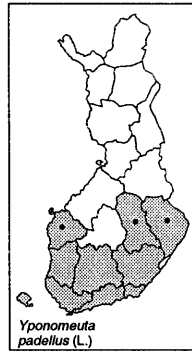
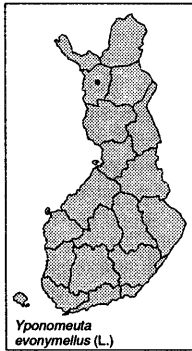
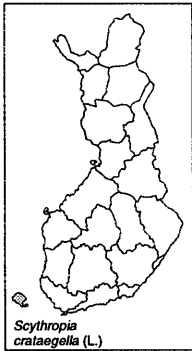


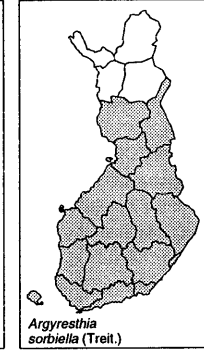
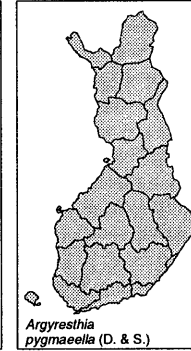
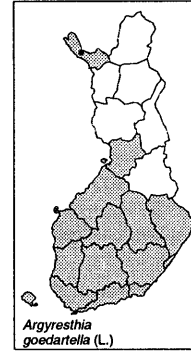
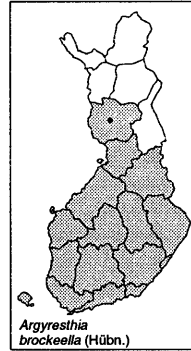
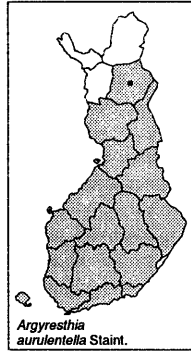
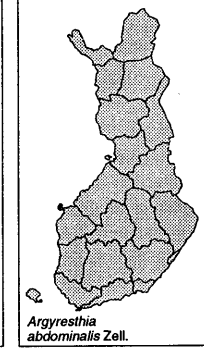
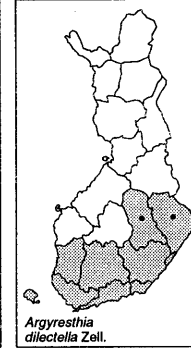
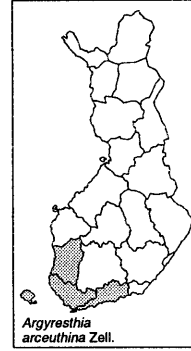
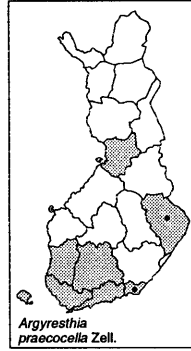
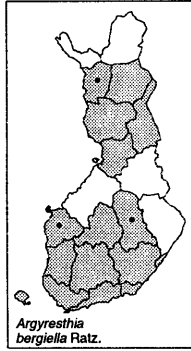
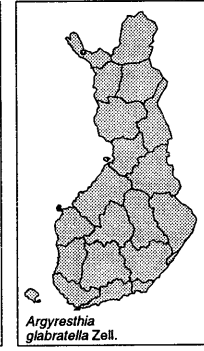
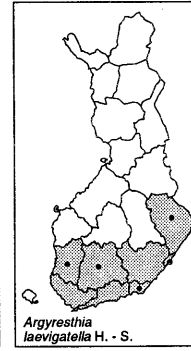
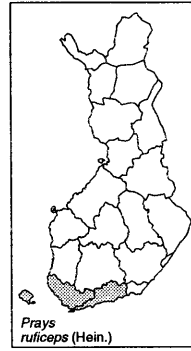
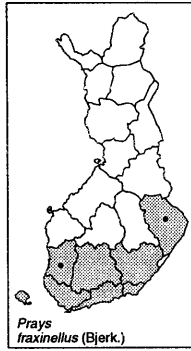
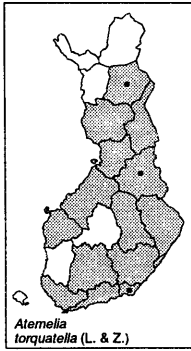
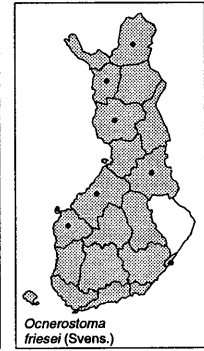
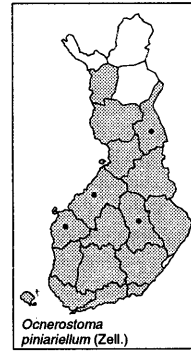
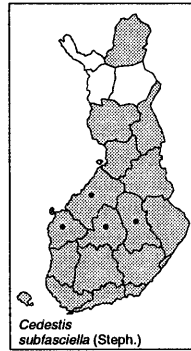
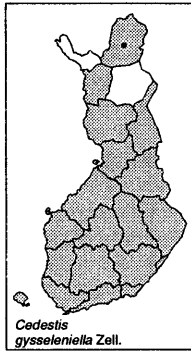
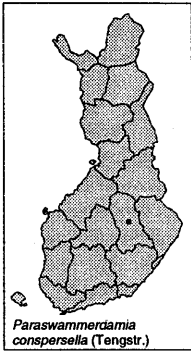


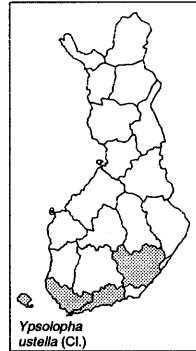
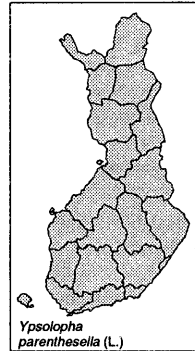
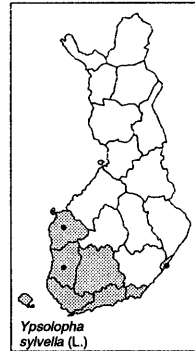
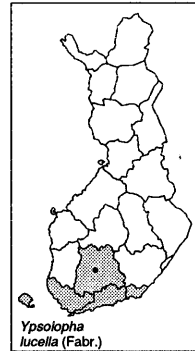
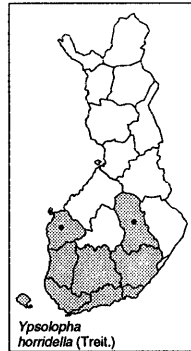
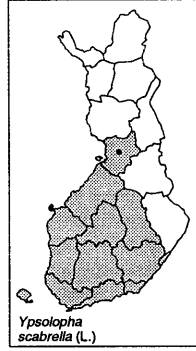
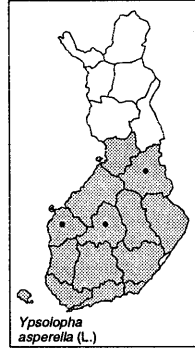
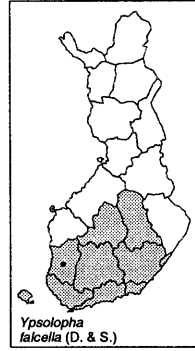
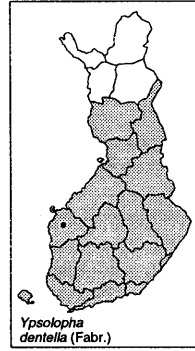
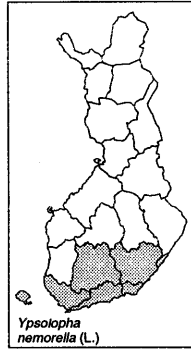
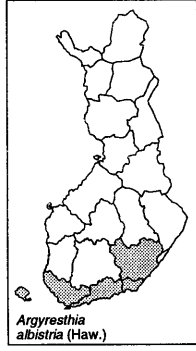
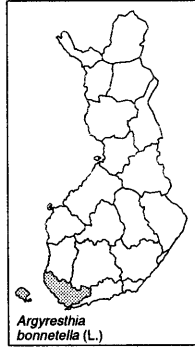
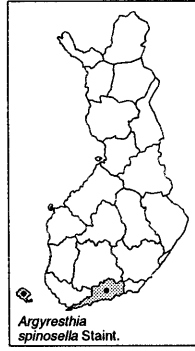
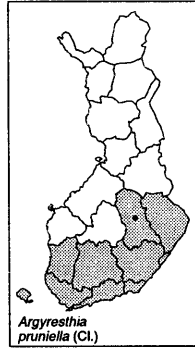
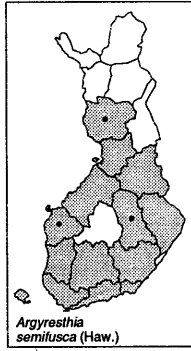
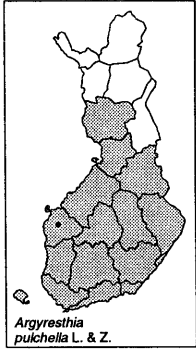
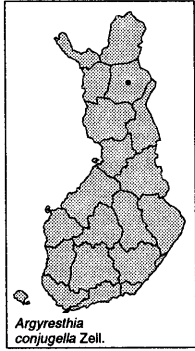
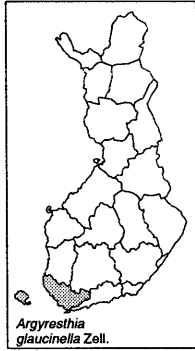
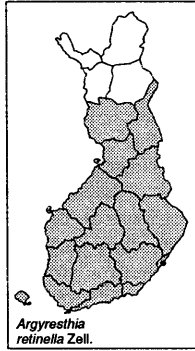
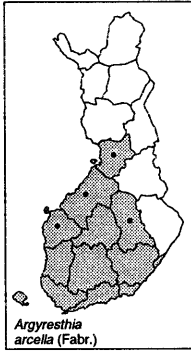


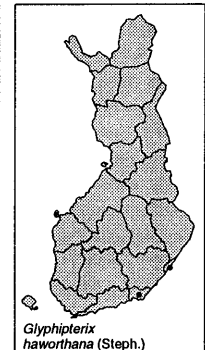
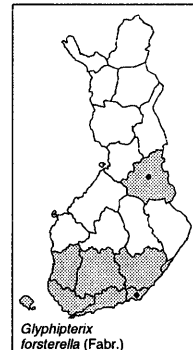
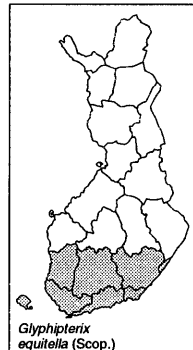
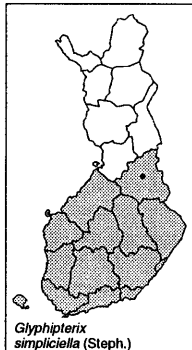
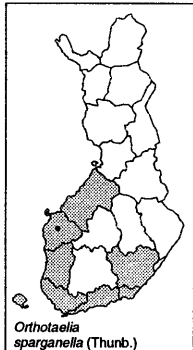
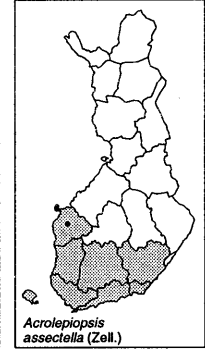
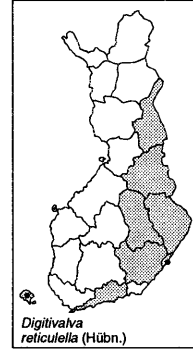
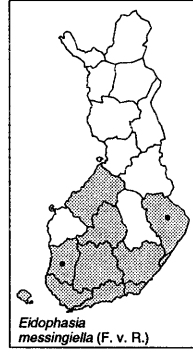
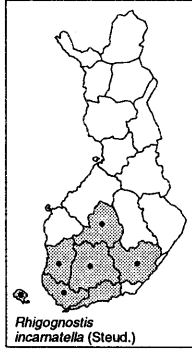
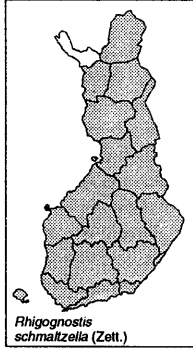
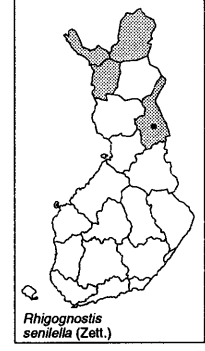
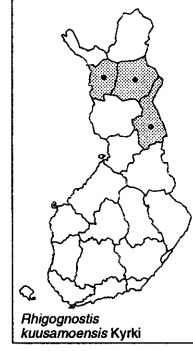
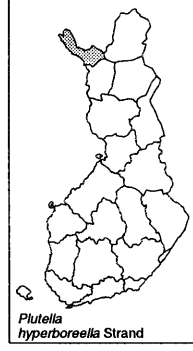
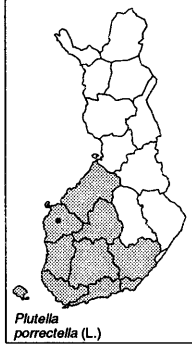
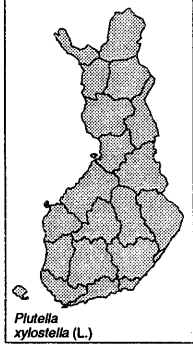
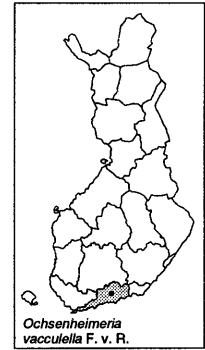
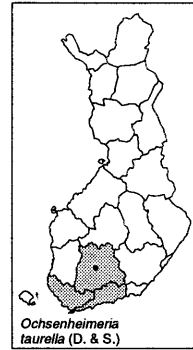
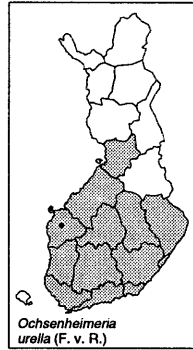
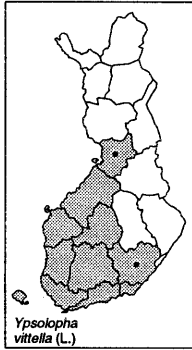
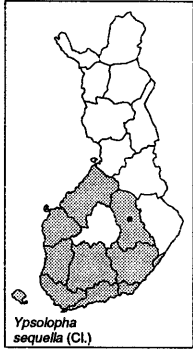


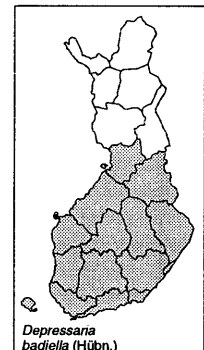
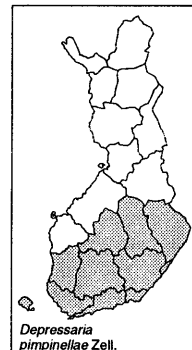
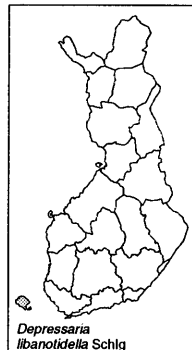
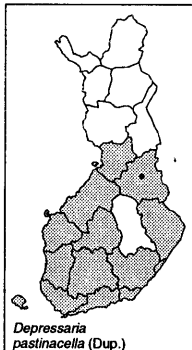
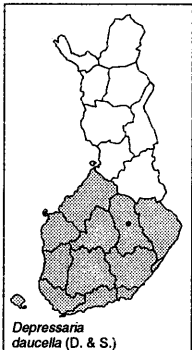
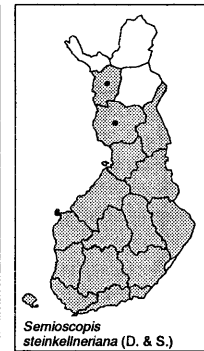
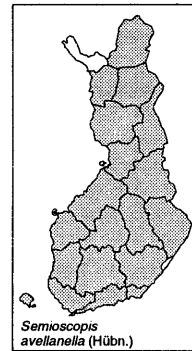
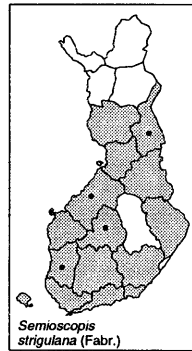
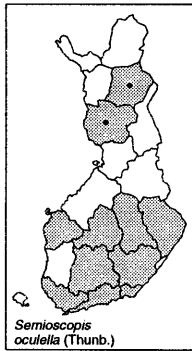
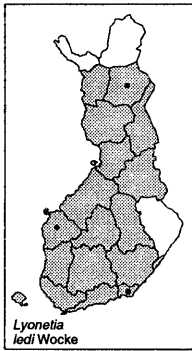
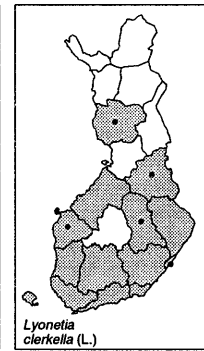
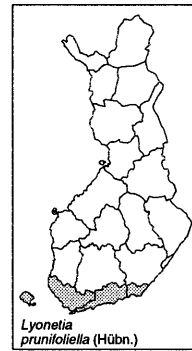
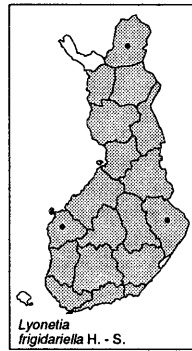
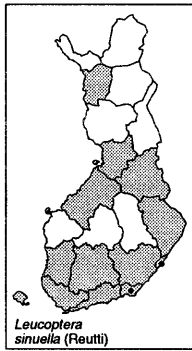
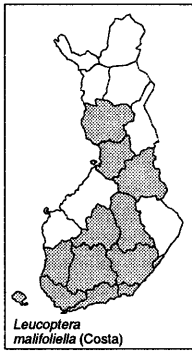
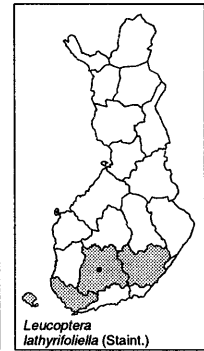
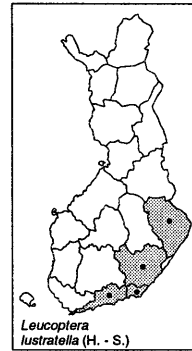
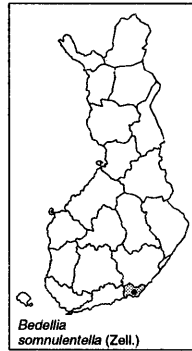
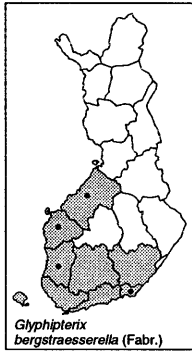
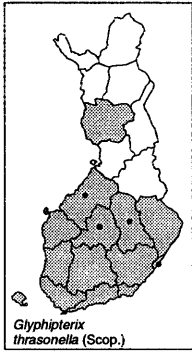




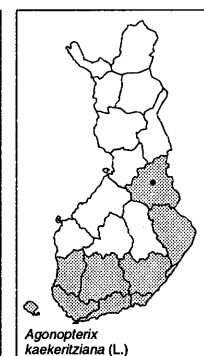
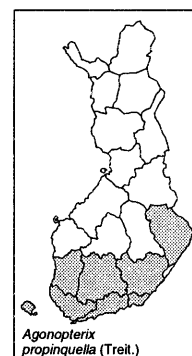
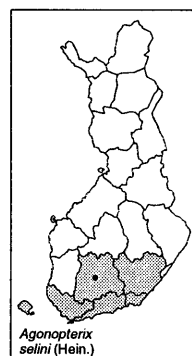
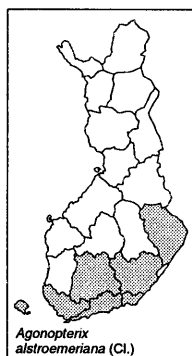
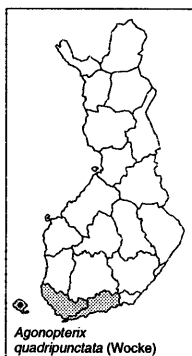
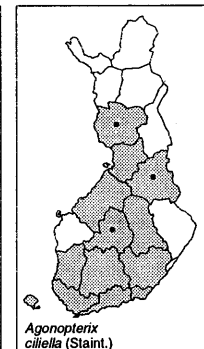
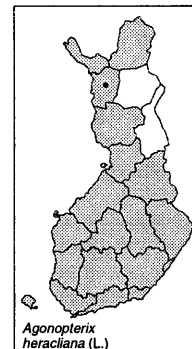
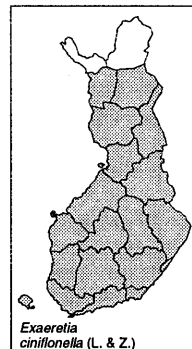
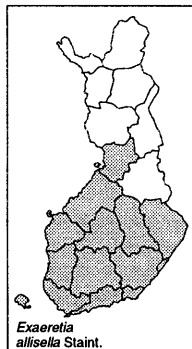
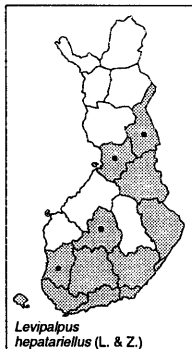
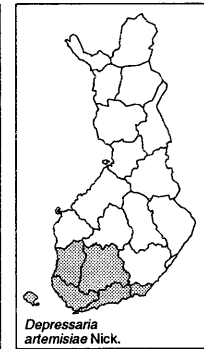
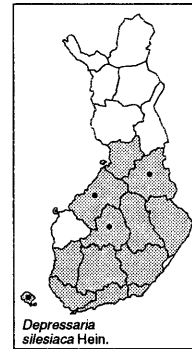
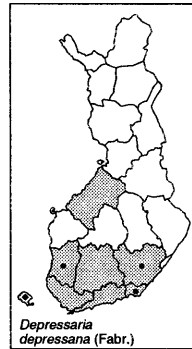
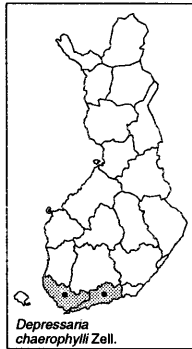
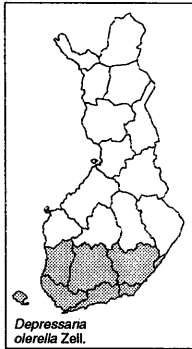
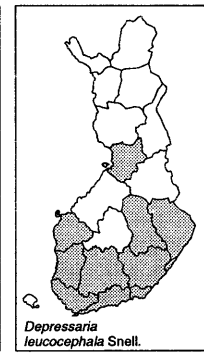
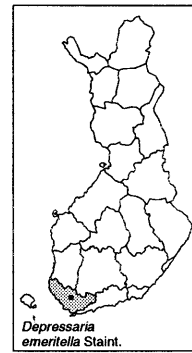
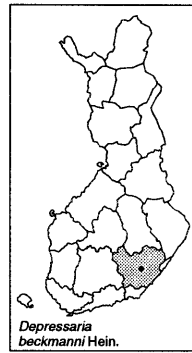
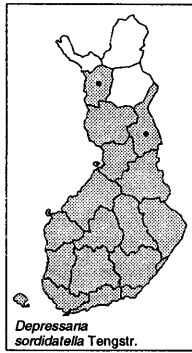
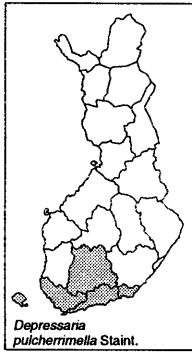


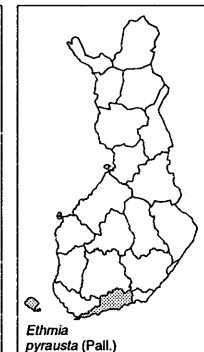
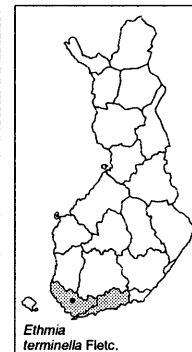
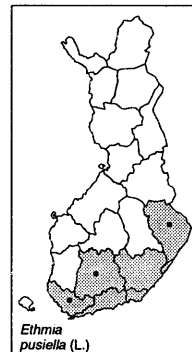
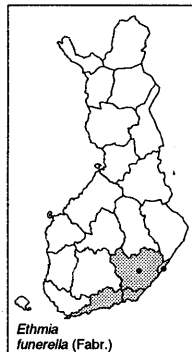
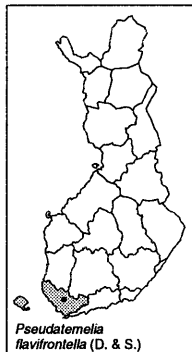
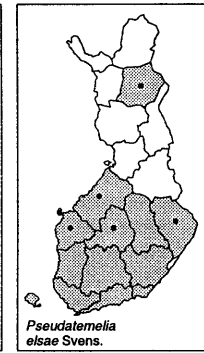
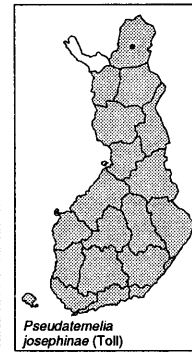
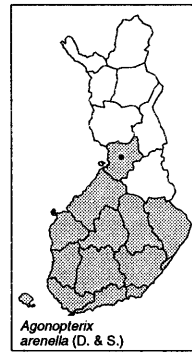
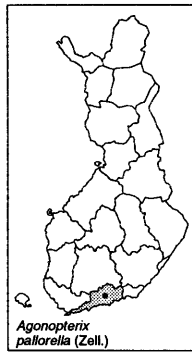
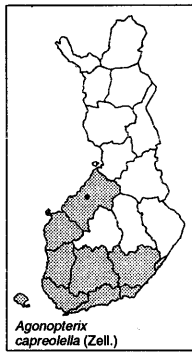
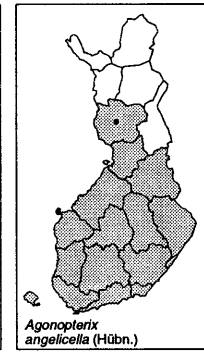
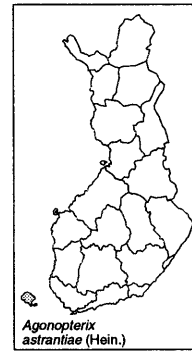
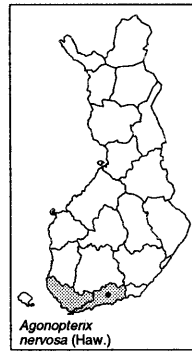
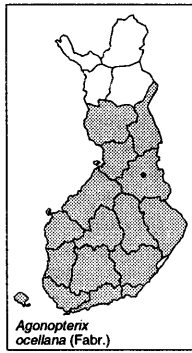
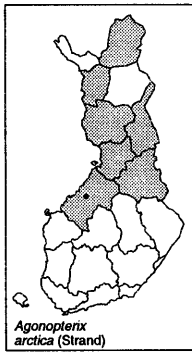
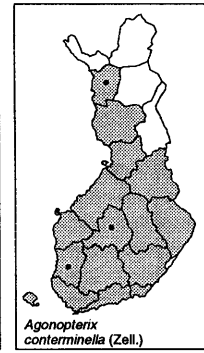
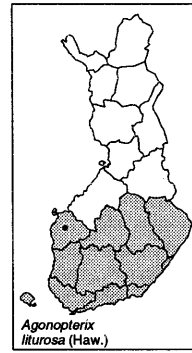
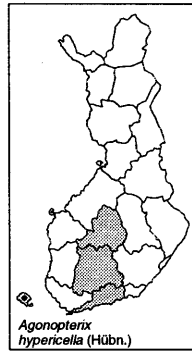
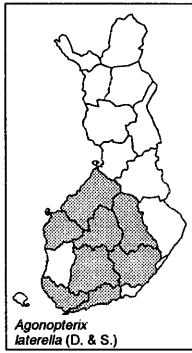
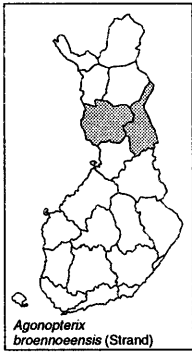


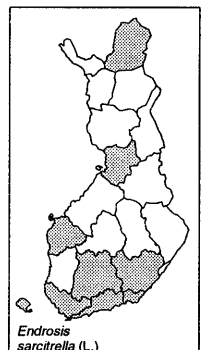
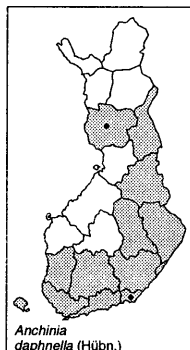
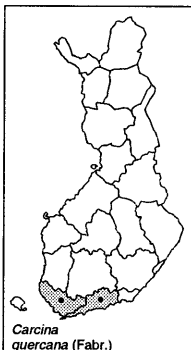
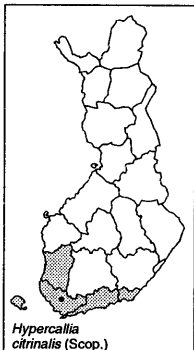
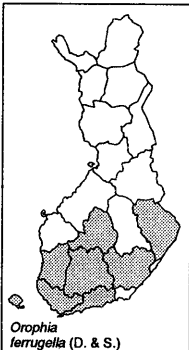
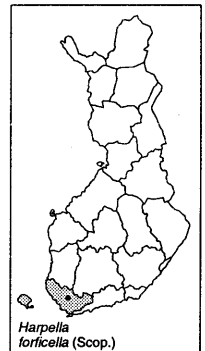
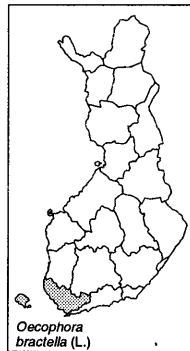
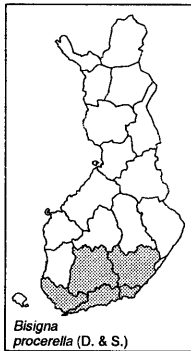
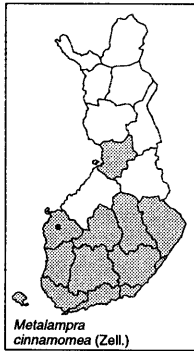
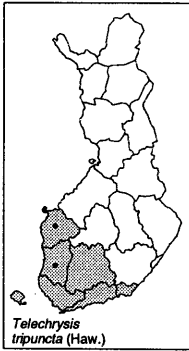
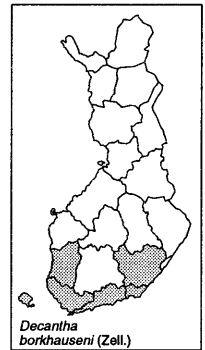
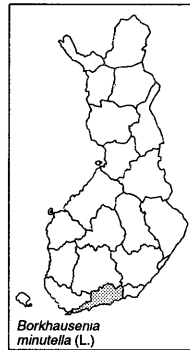
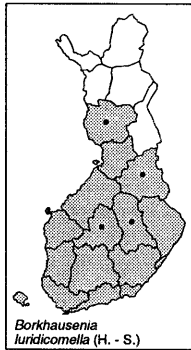
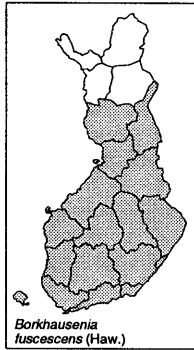
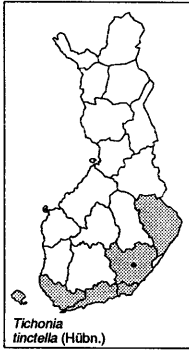
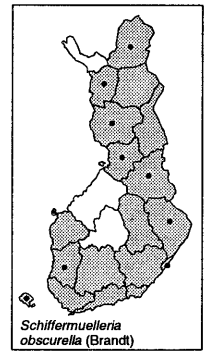
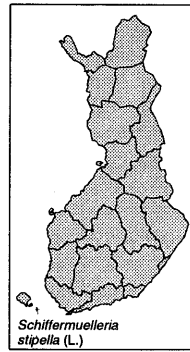
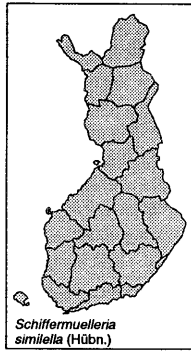
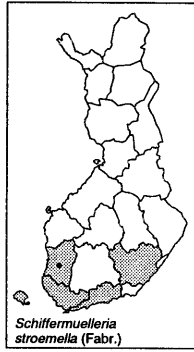
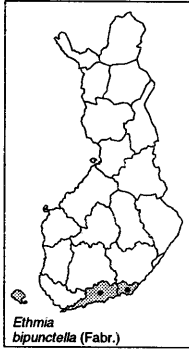


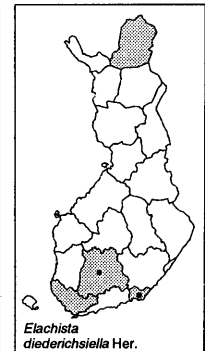
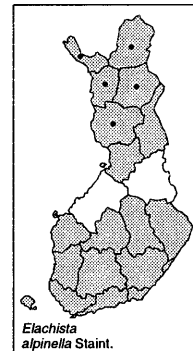
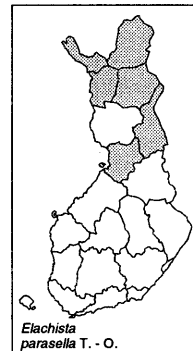
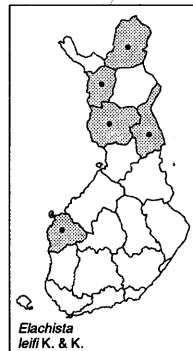
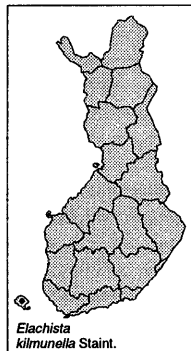
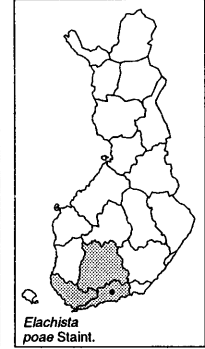
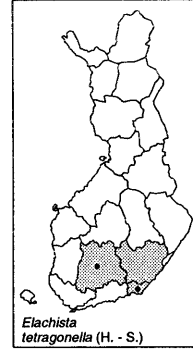
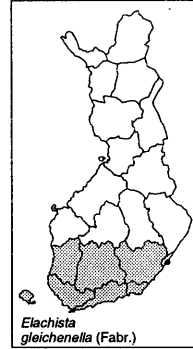
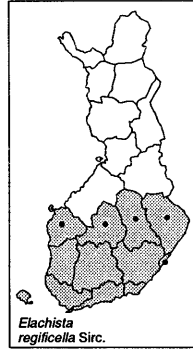
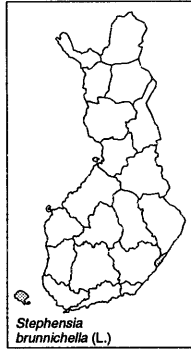
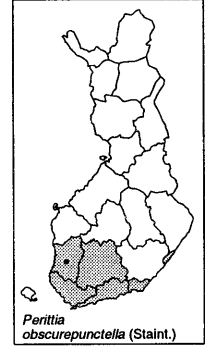
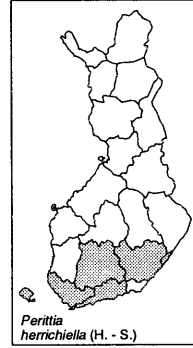
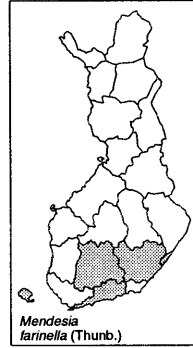
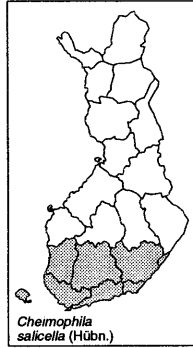
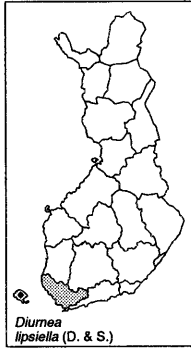
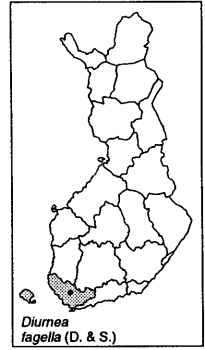
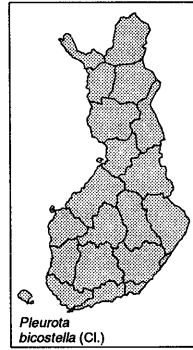
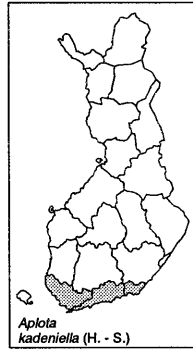
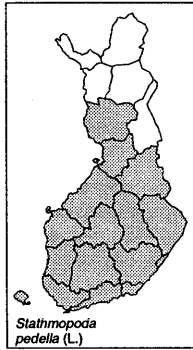
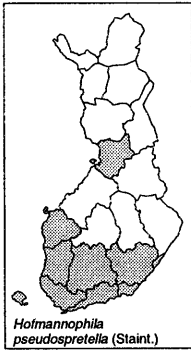


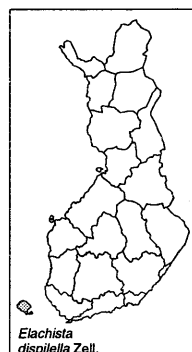
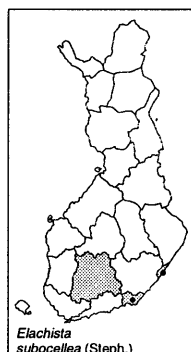
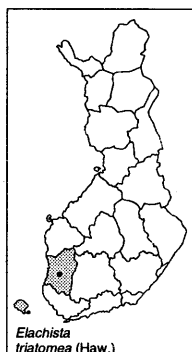
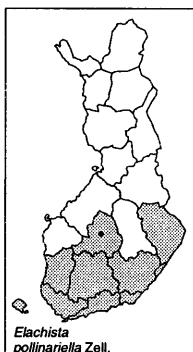
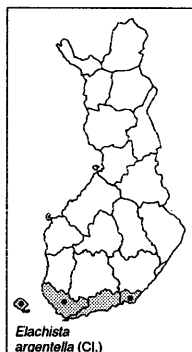
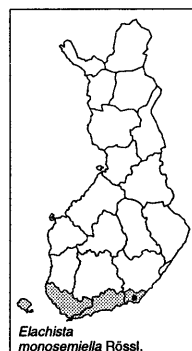
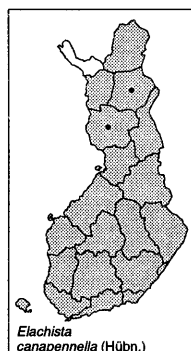
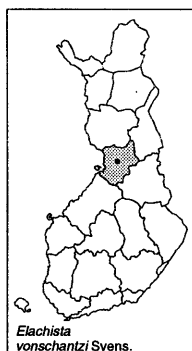
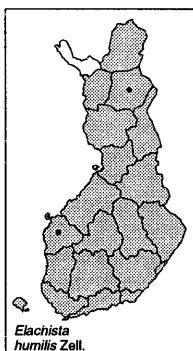
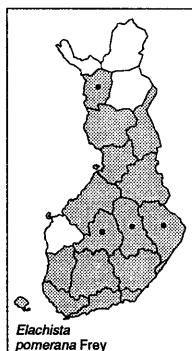
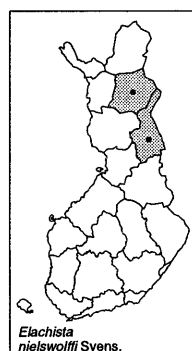
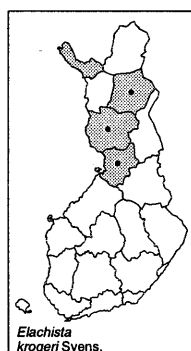
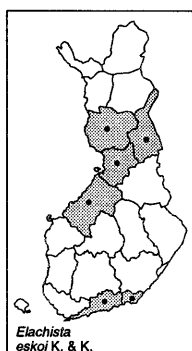
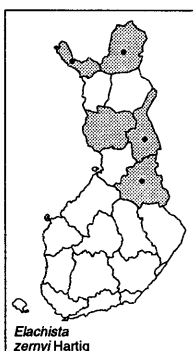
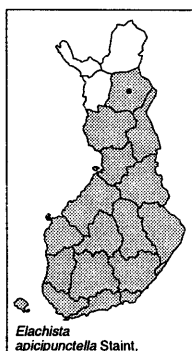
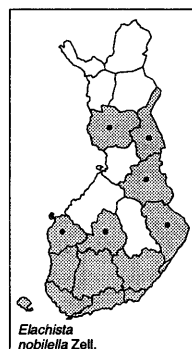
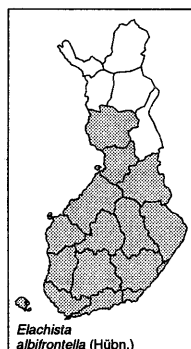
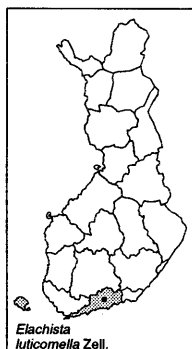
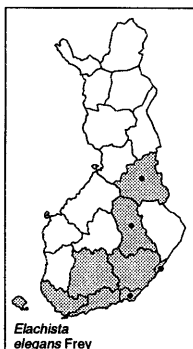
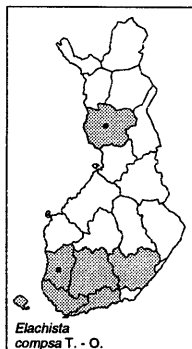


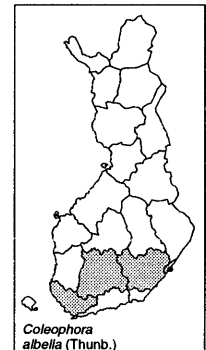
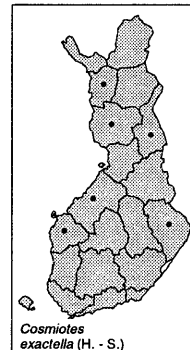
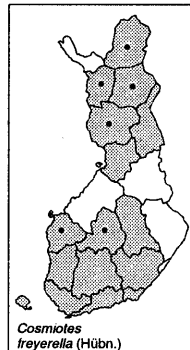
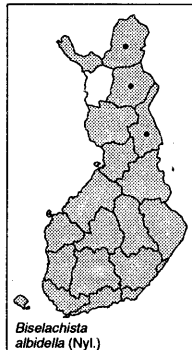
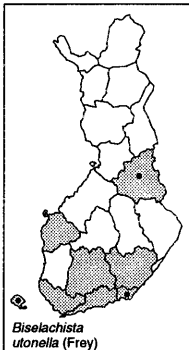
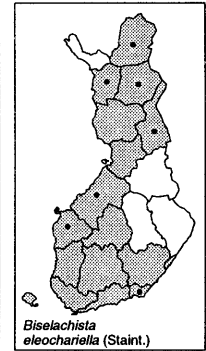
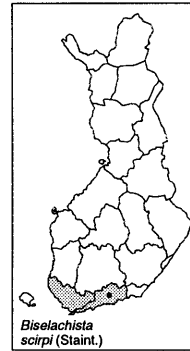
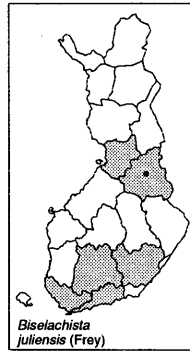
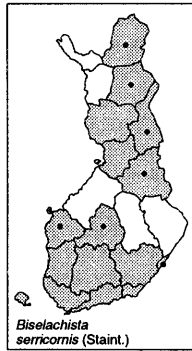
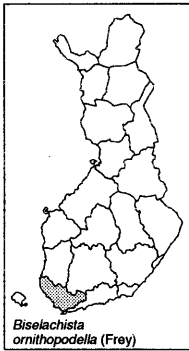
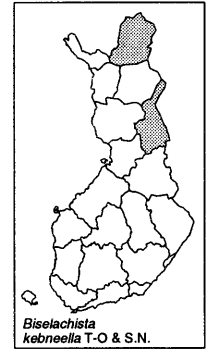
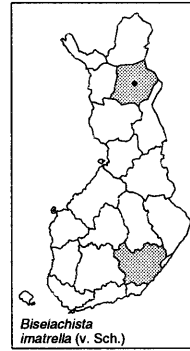
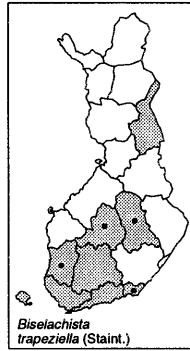
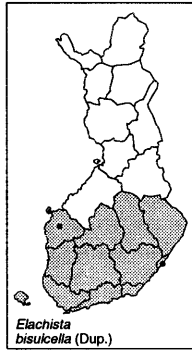
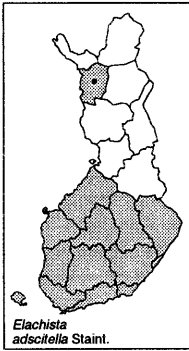
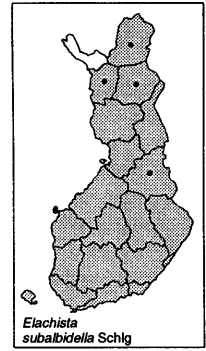
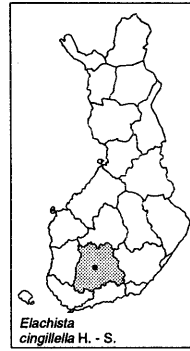
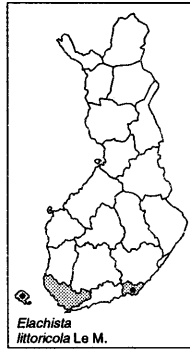
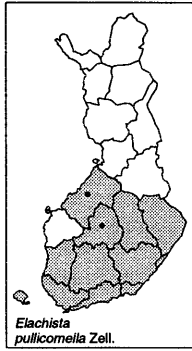
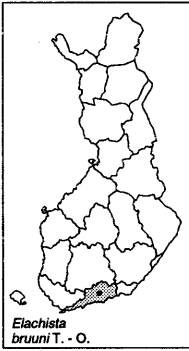


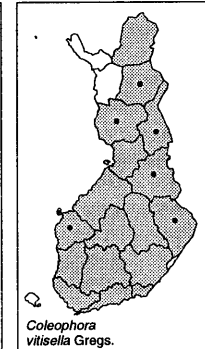
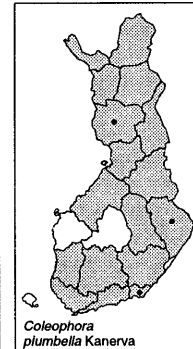
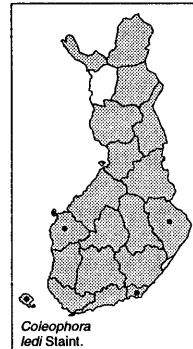
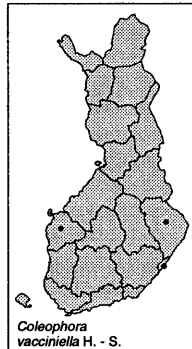
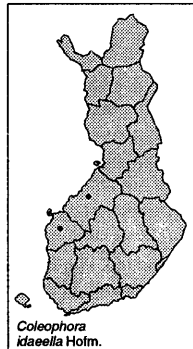
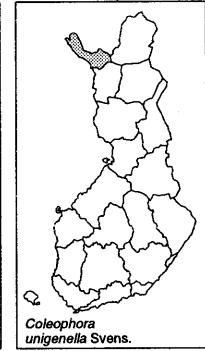
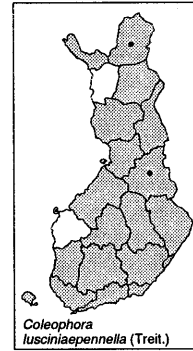
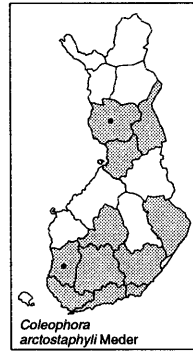
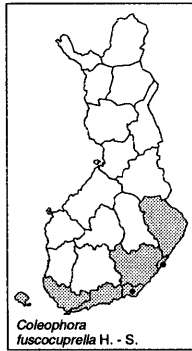
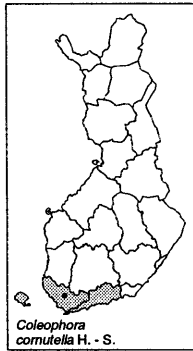
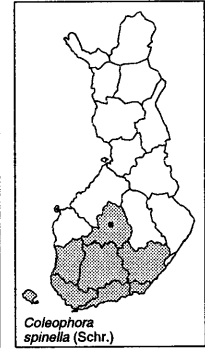
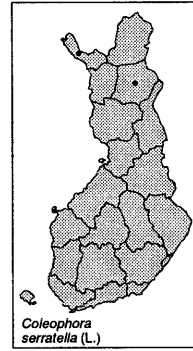
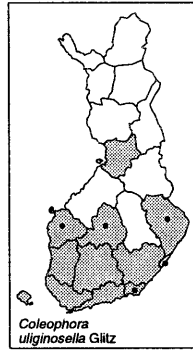
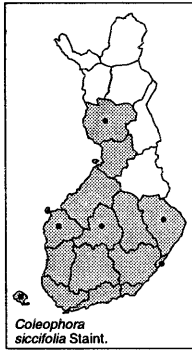
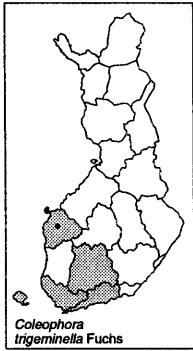
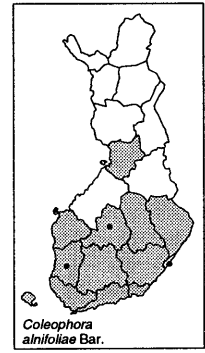
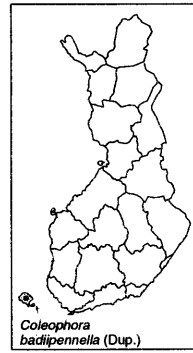
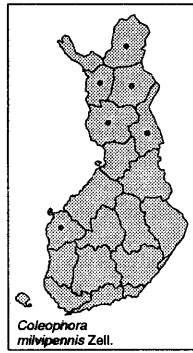
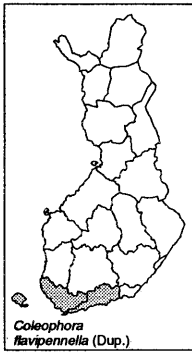
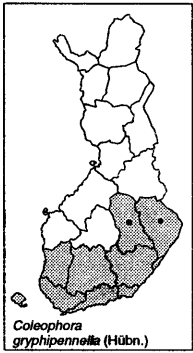


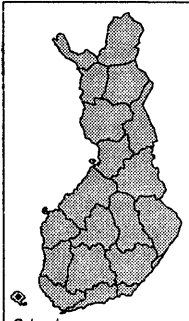




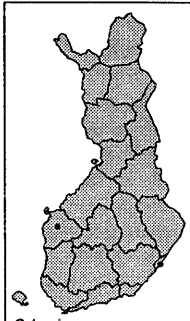




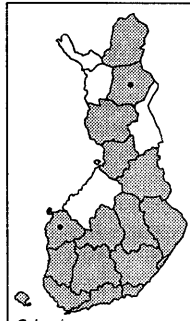




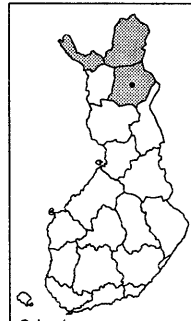
*Coleophora glitzella* Hofm.



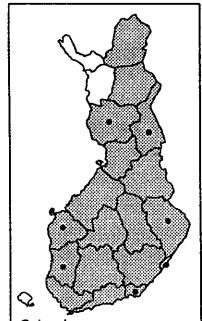
*Coleophora murinella* Tengstr.



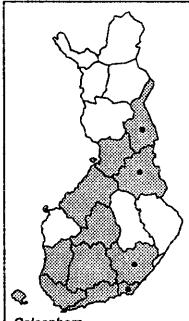
*Coleophora violacea* (Ström)



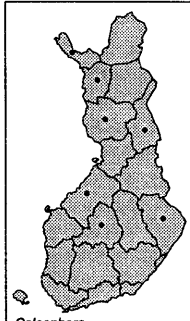
*Coleophora thulea* Johans.



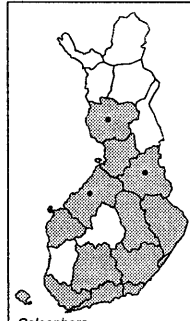
*Coleophora obscuripalpella* Kanerva



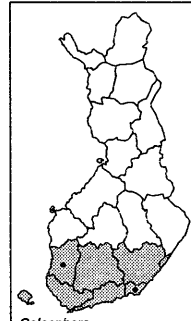
*Coleophora juncicolella* Staint.



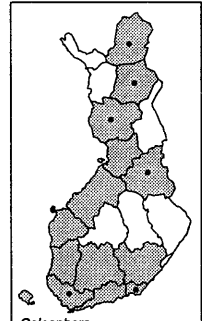
*Coleophora orbitella* Zell.



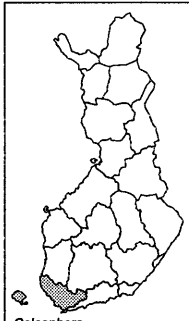
*Coleophora binderella* Kollar



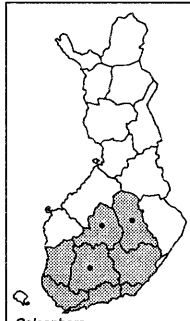
*Coleophora ahenella* Wocke



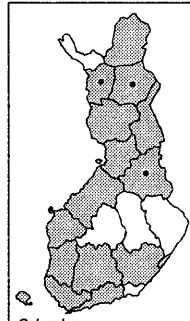
*Coleophora potentillae* Elisha



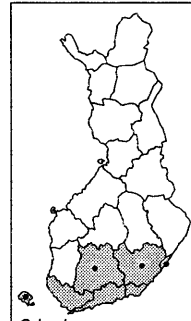
*Coleophora albitarsella* Zell.



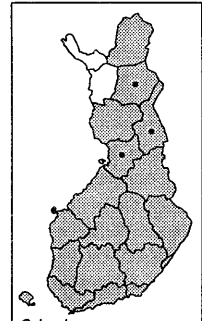
*Coleophora trifolii* (Curt.)



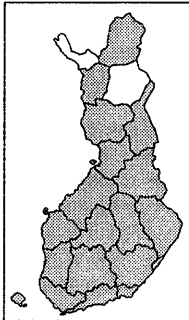
*Coleophora frischella* (L.)



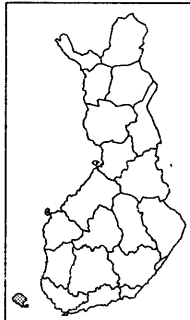
*Coleophora alcyonipennella* (Kollar)



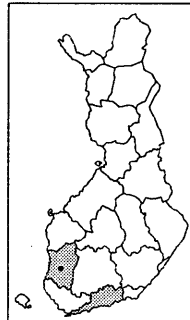
*Coleophora deauratella* L. & Z.



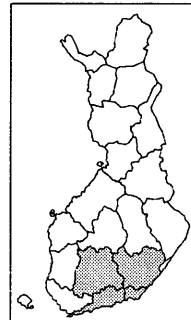
*Coleophora mayrella* (Hübner)



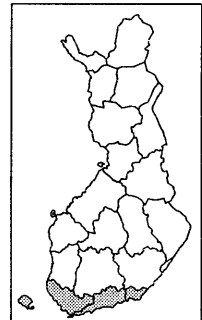
*Coleophora hemerobiella* (Scop.)



*Coleophora ilthargymnella* Zell.

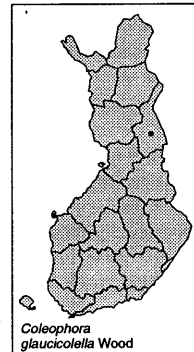
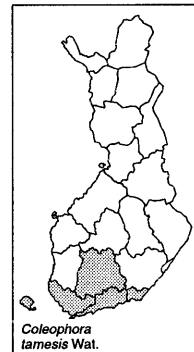
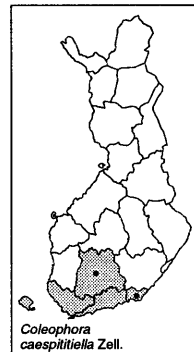
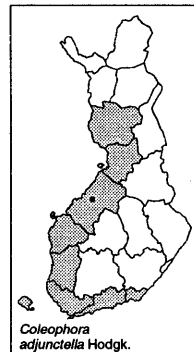
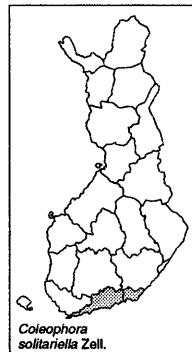
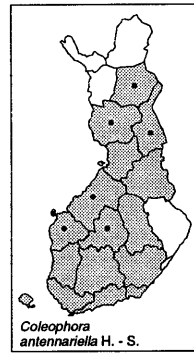
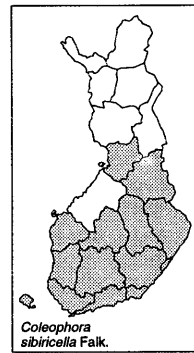
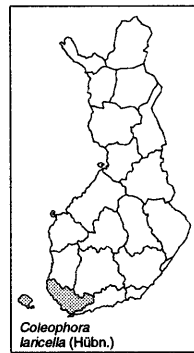
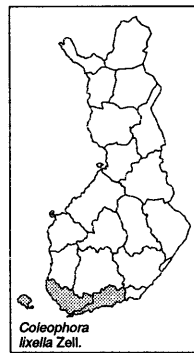
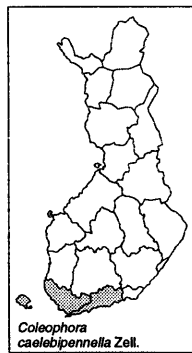
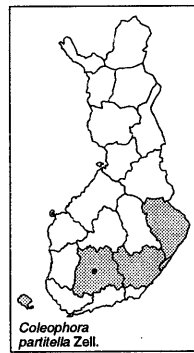
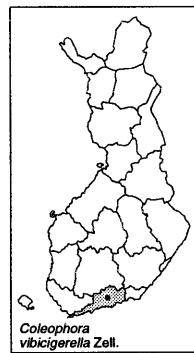
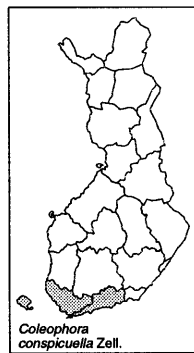
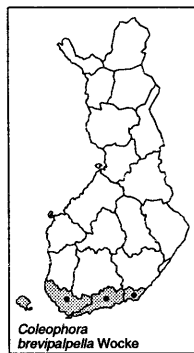
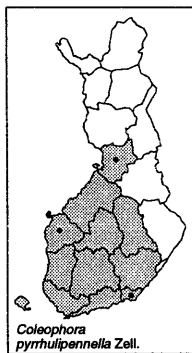
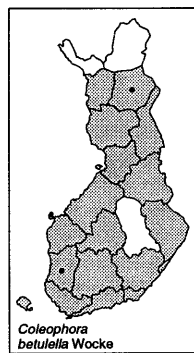
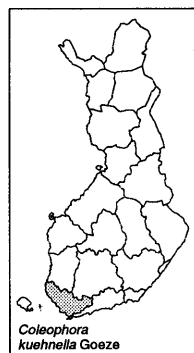
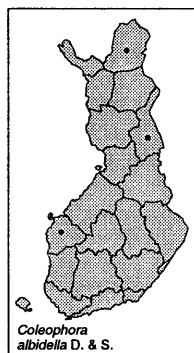
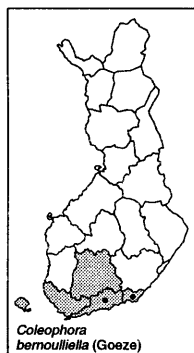
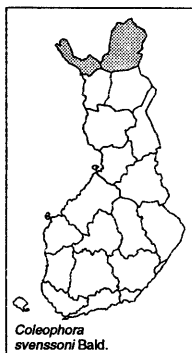


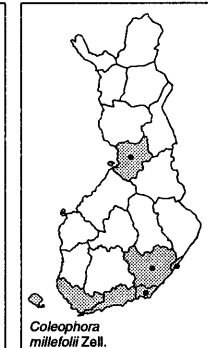
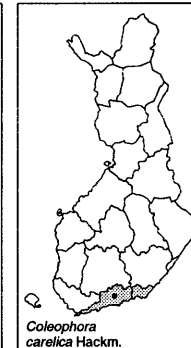
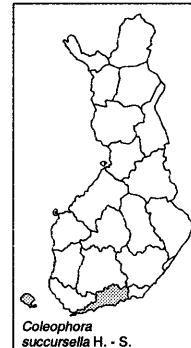
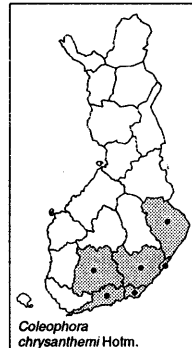
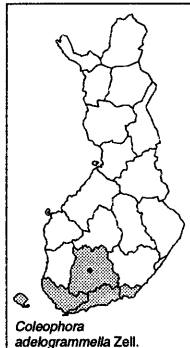
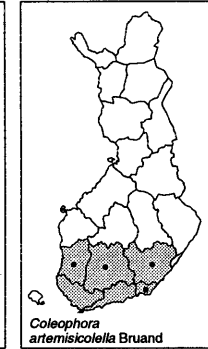
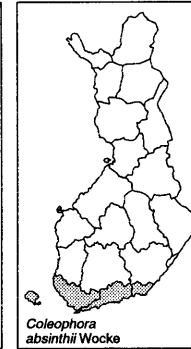
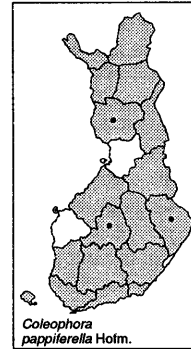
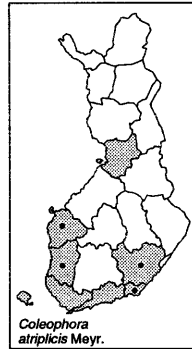
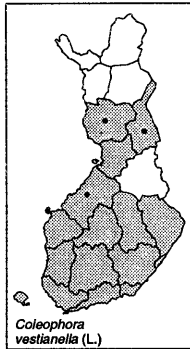
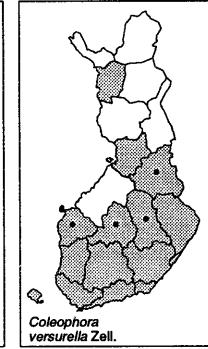
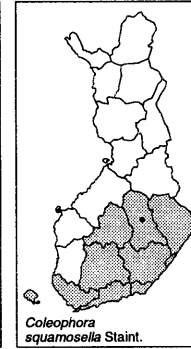
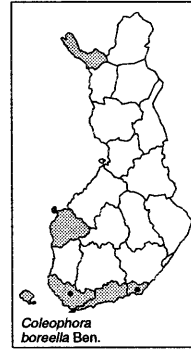
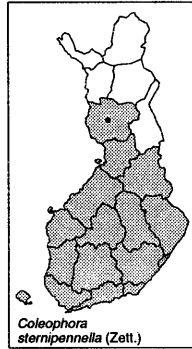
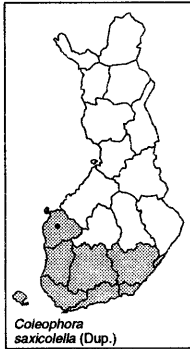
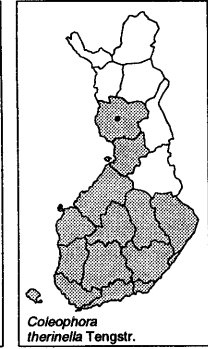
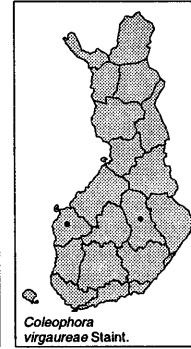
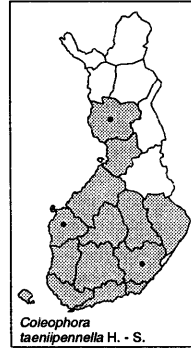
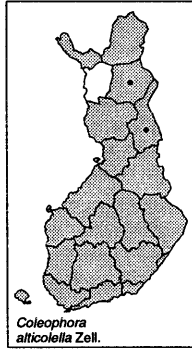
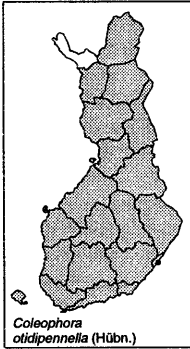
*Coleophora colutella* (Fabr.)

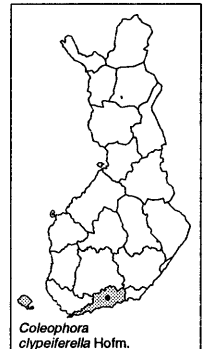
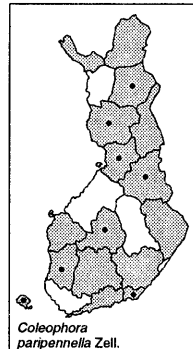
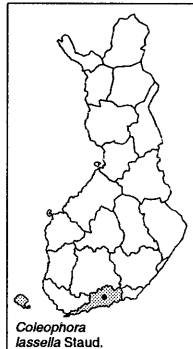
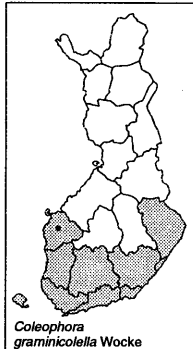
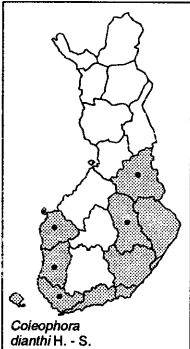
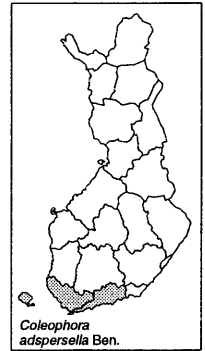
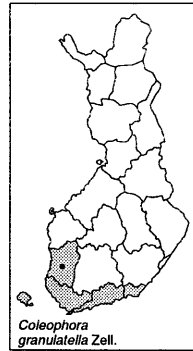
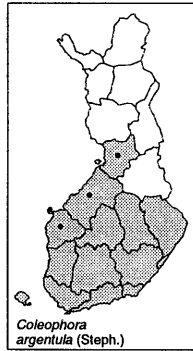
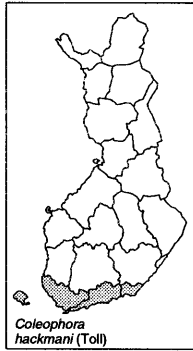
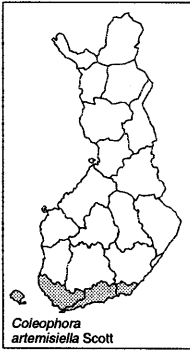
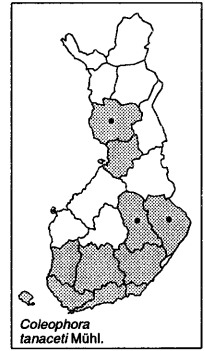
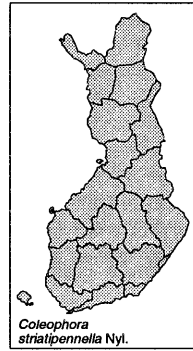
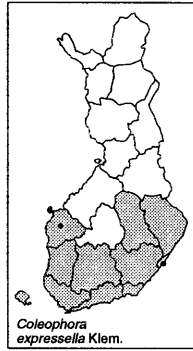
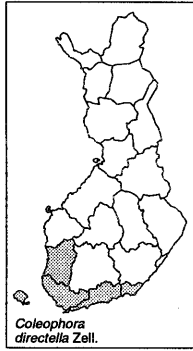
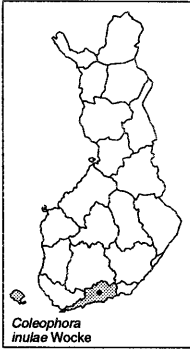
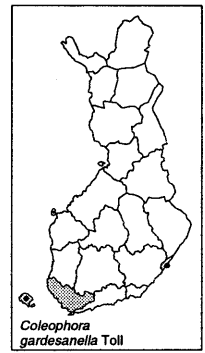
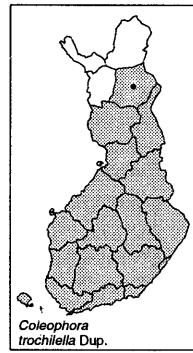
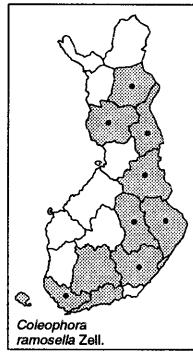
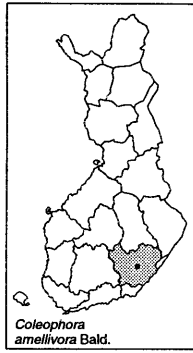
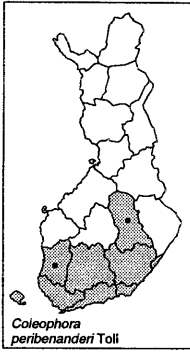


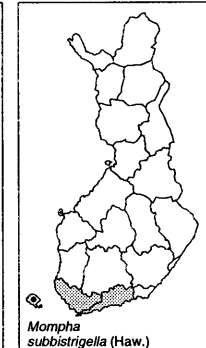
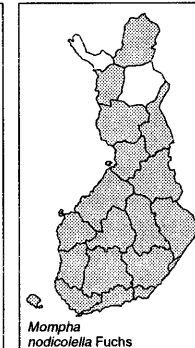
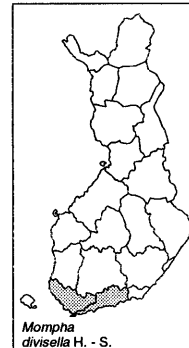
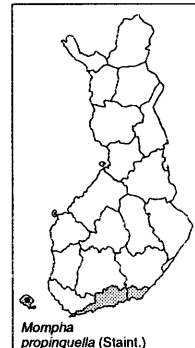
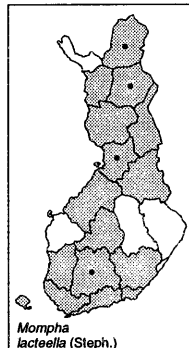
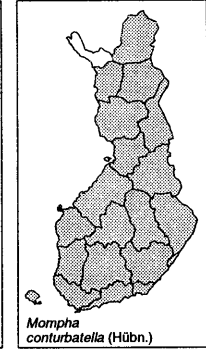
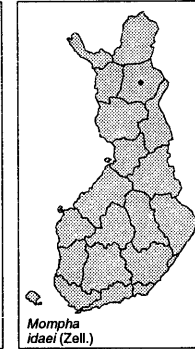
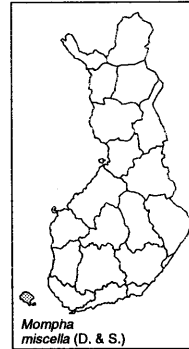
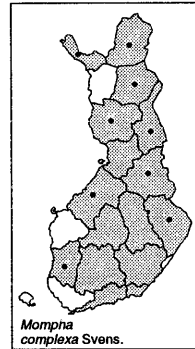
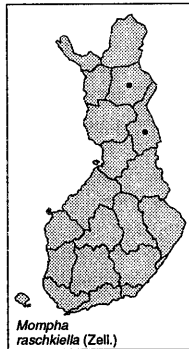
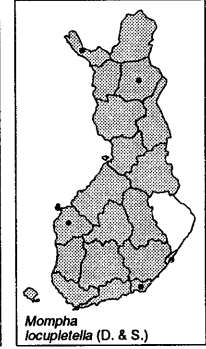
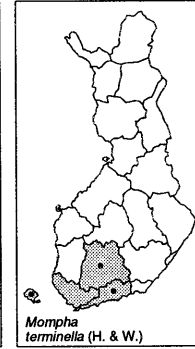
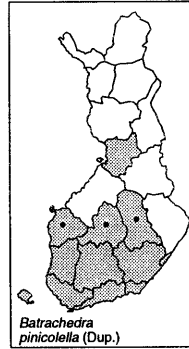
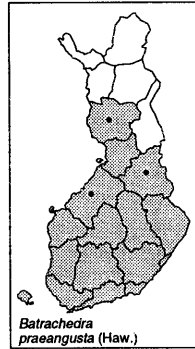
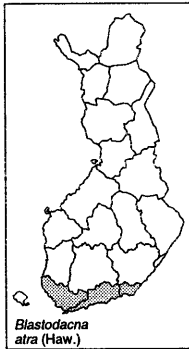
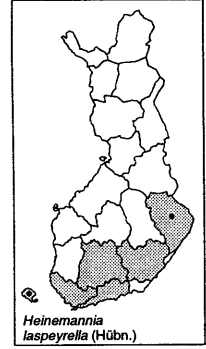
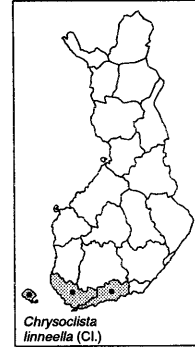
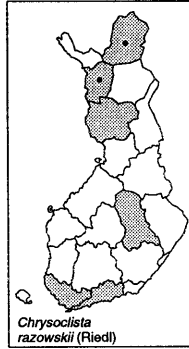
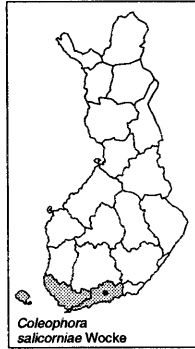
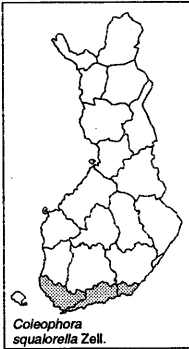
*Coleophora discordella* Zell.

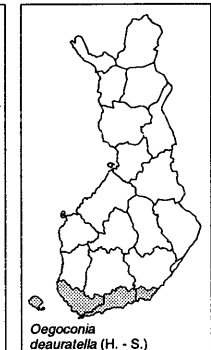
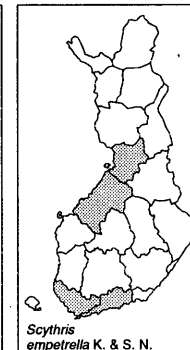
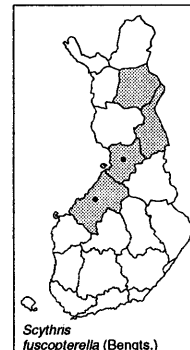
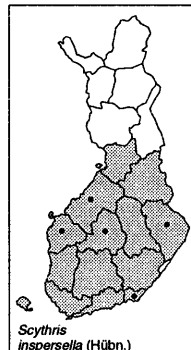
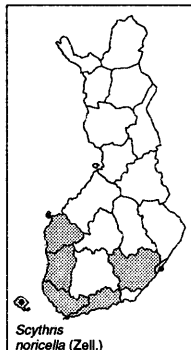
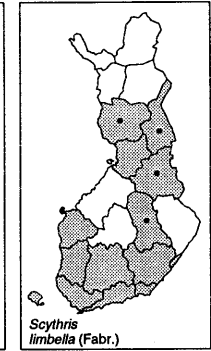
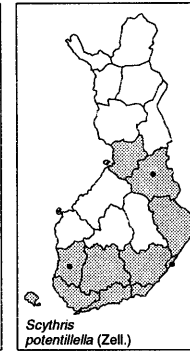
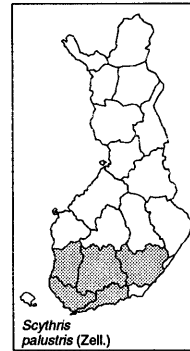
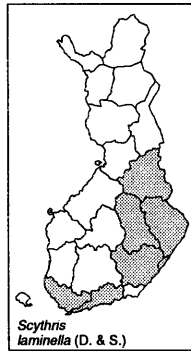
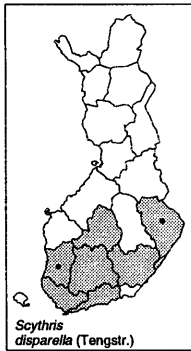
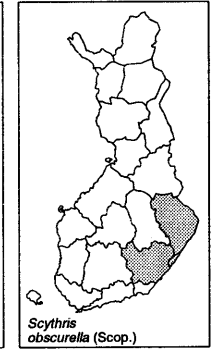
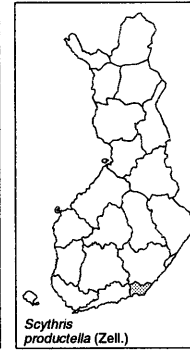
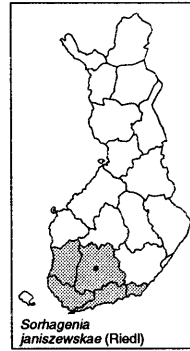
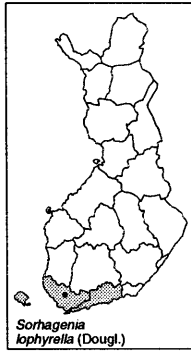
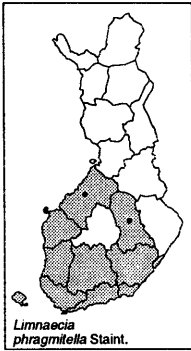
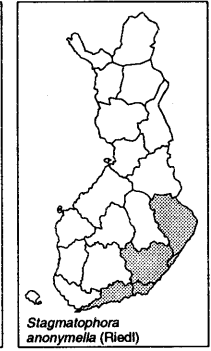
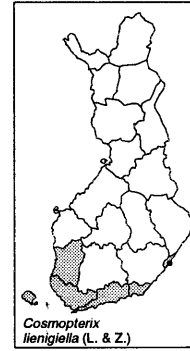
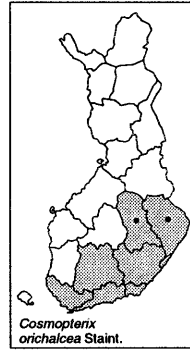
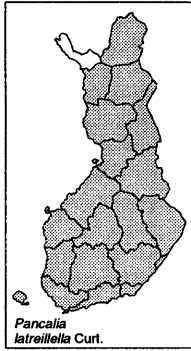
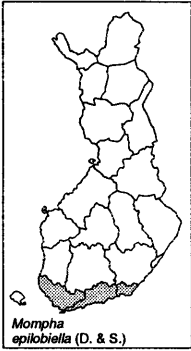


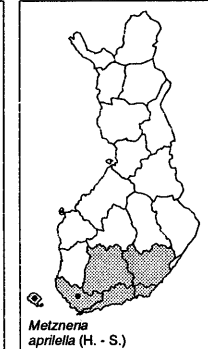
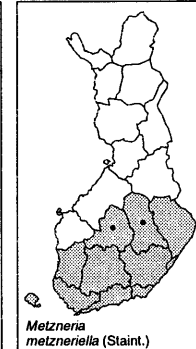
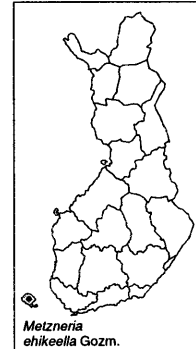
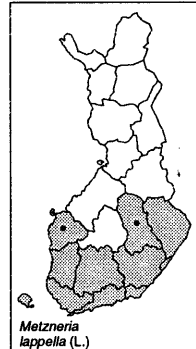
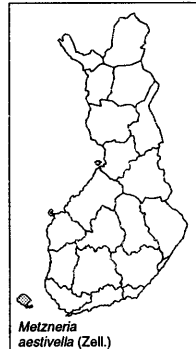
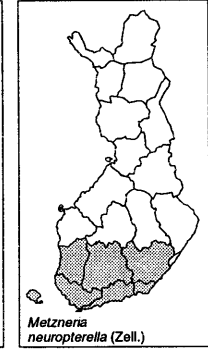
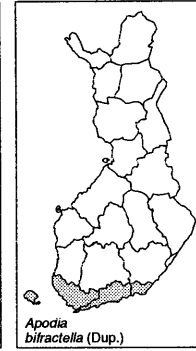
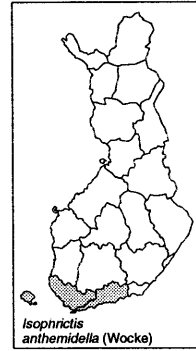
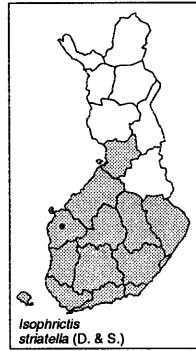
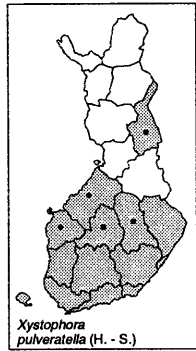
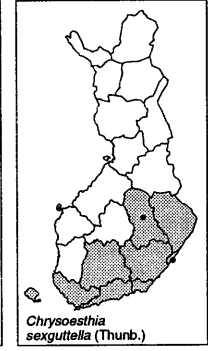
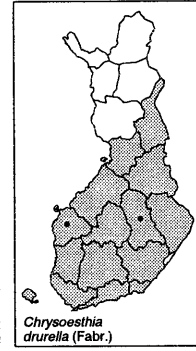
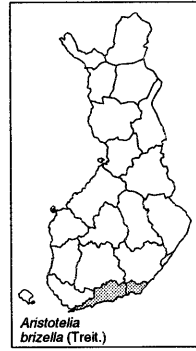
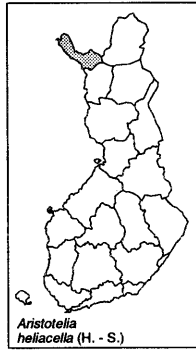
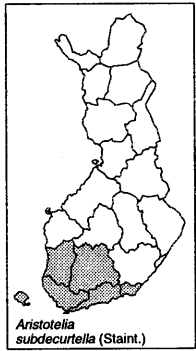
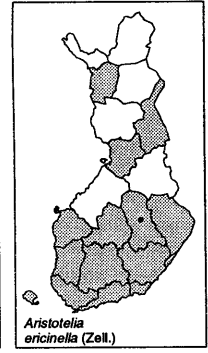
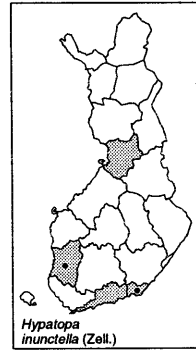
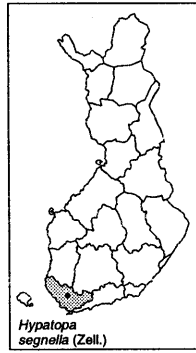
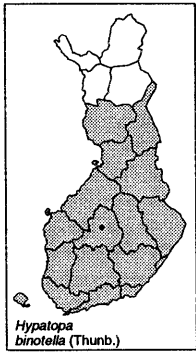
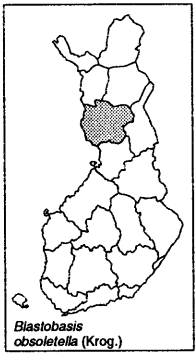


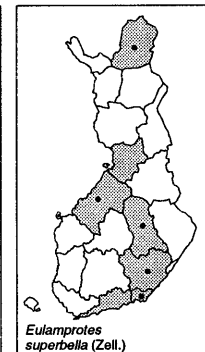
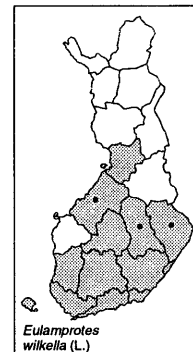
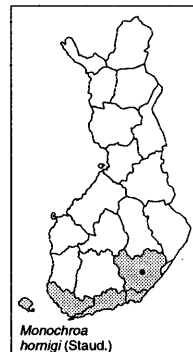
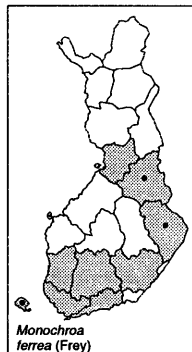
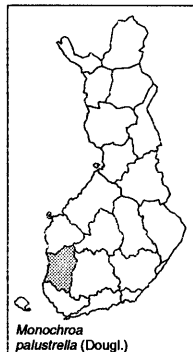
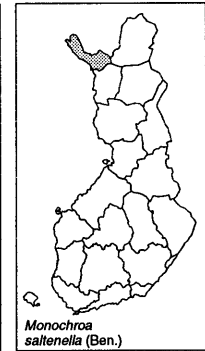
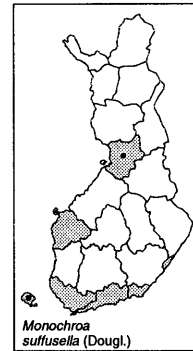
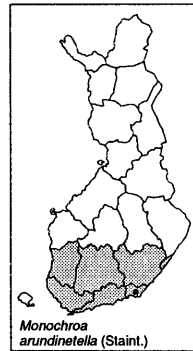
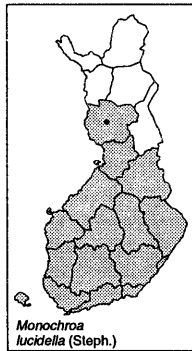
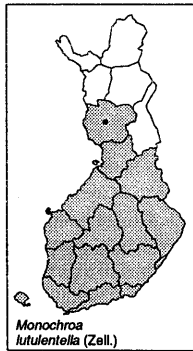
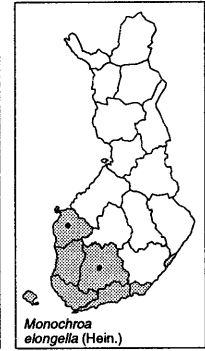
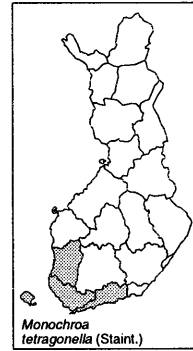
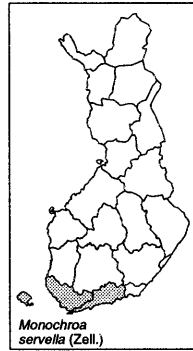
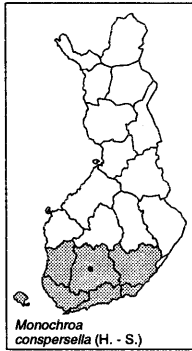
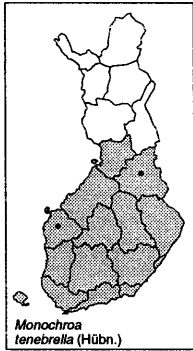
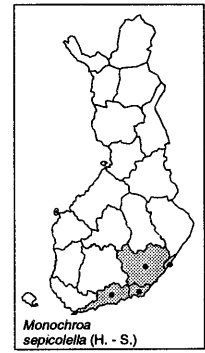
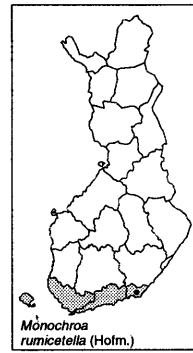
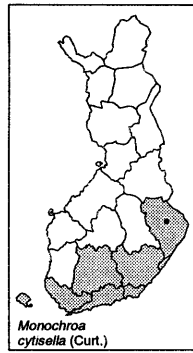
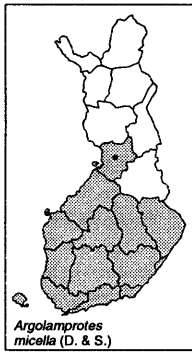
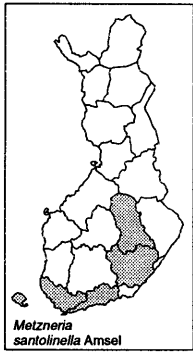


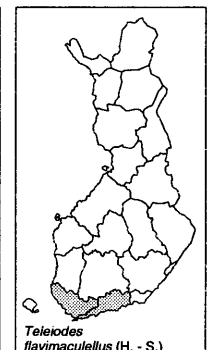
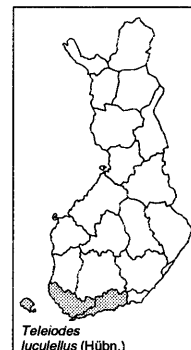
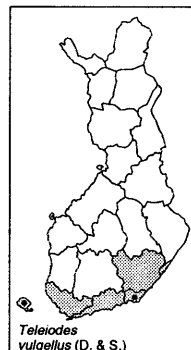
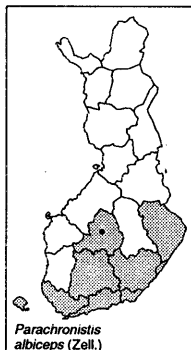
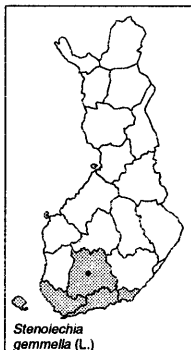
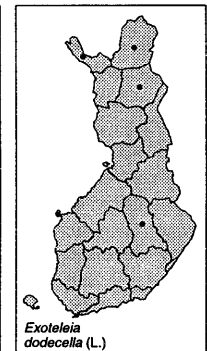
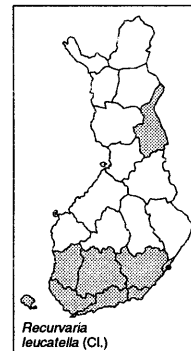
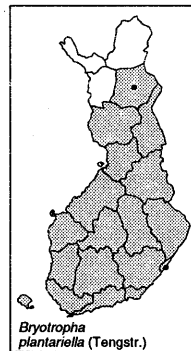
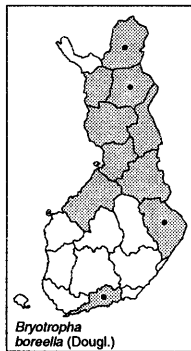
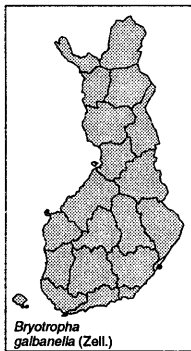
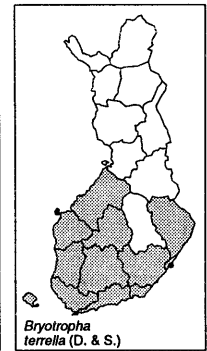
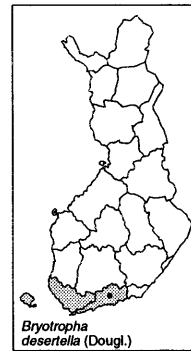
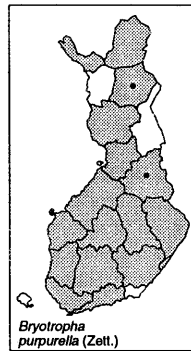
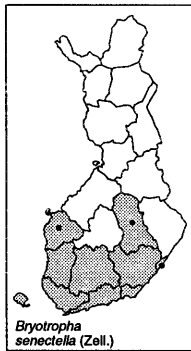
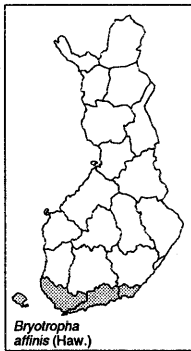
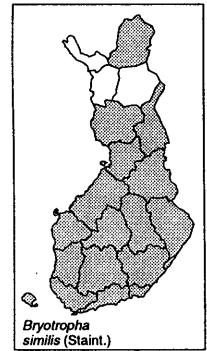
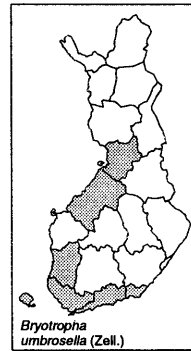
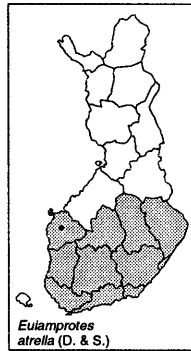
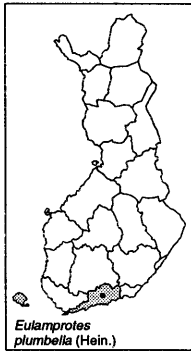
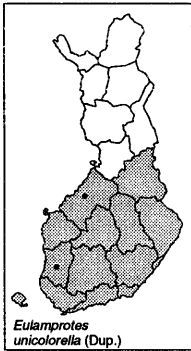




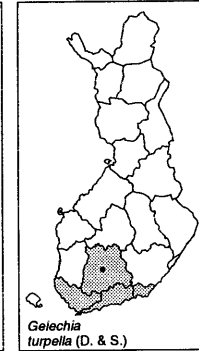
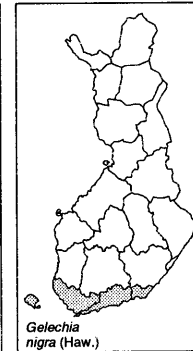
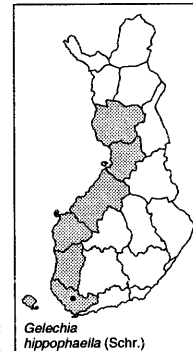
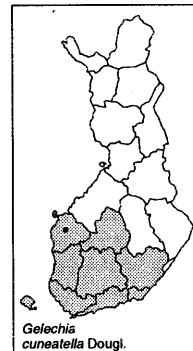
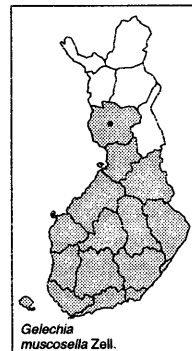
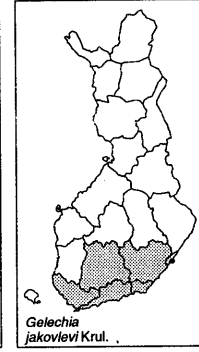
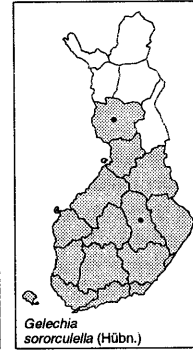
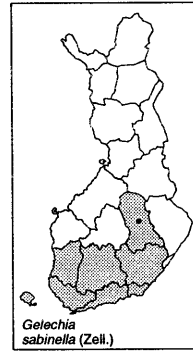
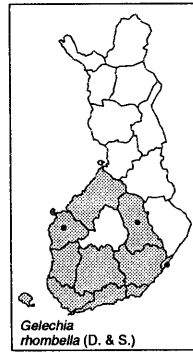
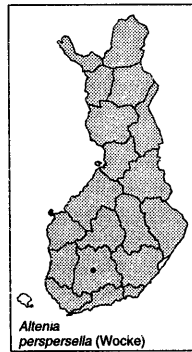
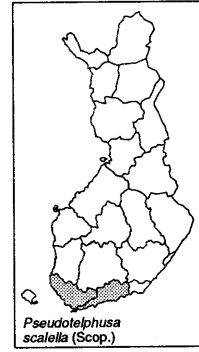
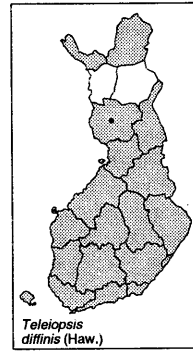
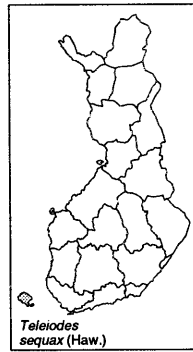
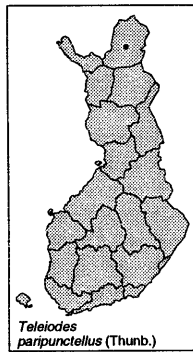
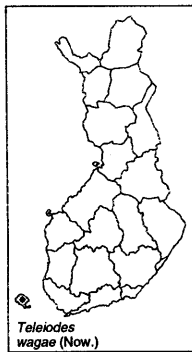
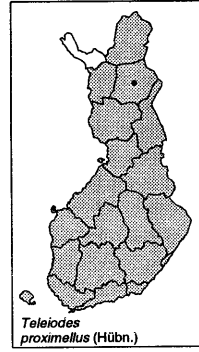
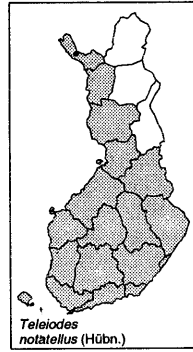
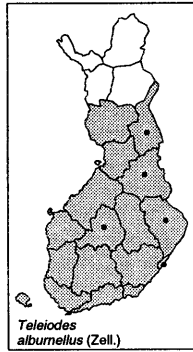
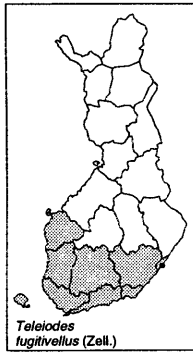
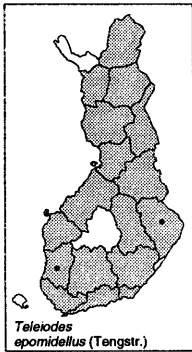


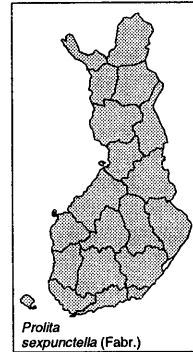
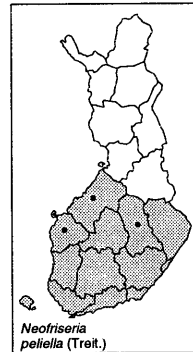
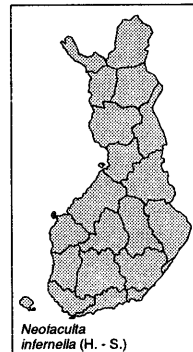
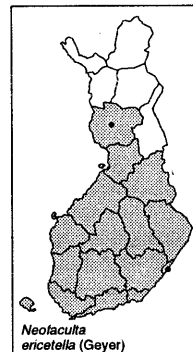
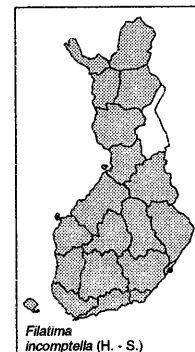
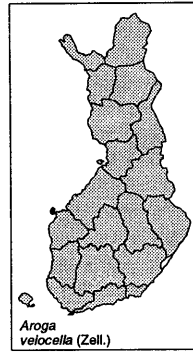
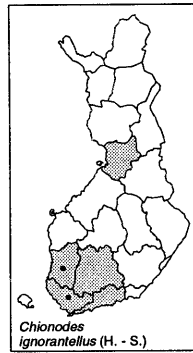
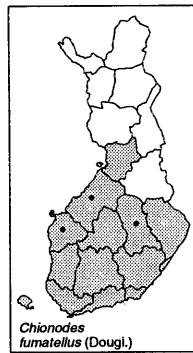
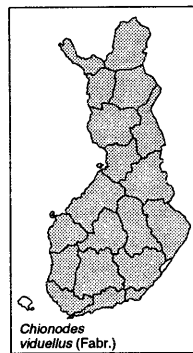
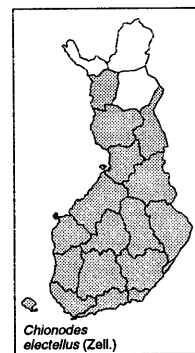
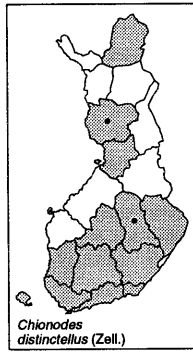
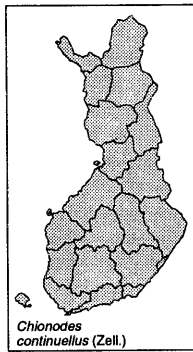
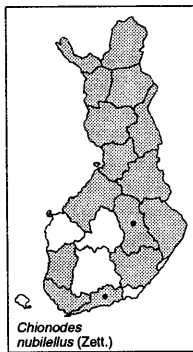
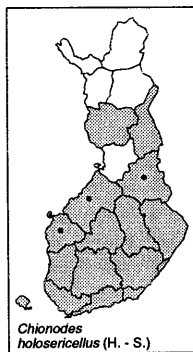
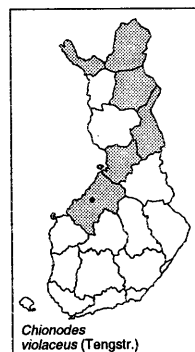
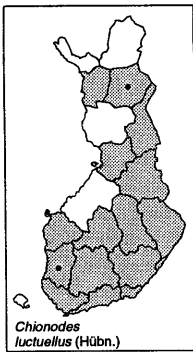
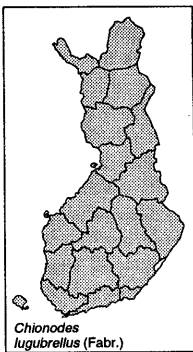
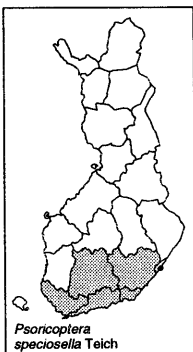
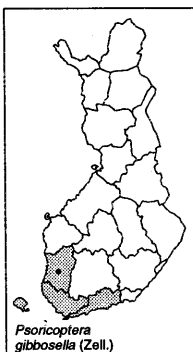
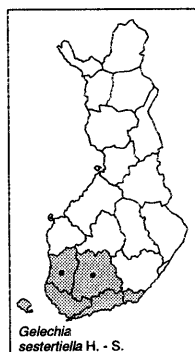


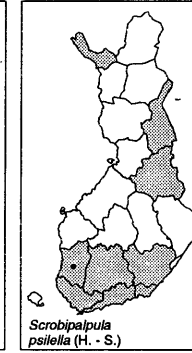
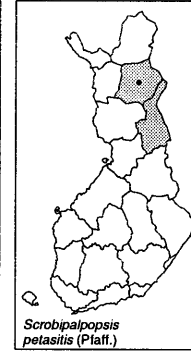
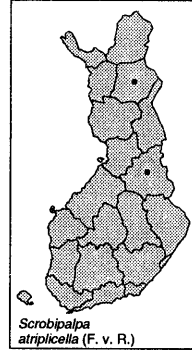
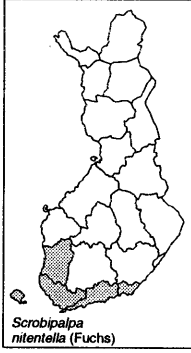
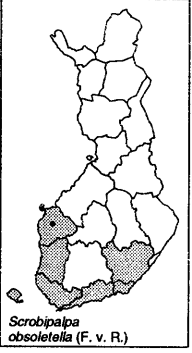
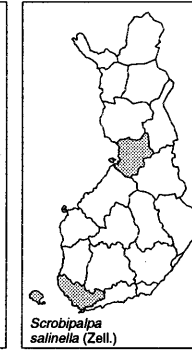
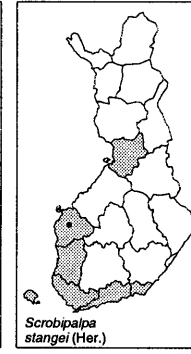
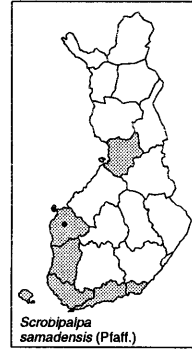
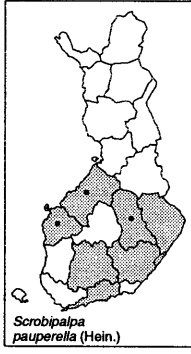
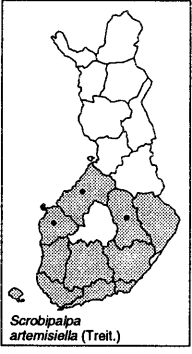
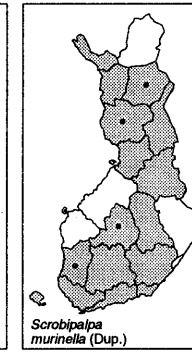
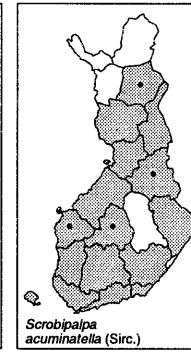
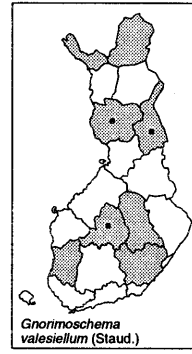
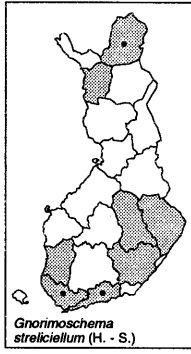
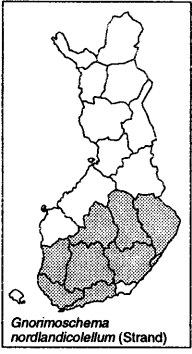
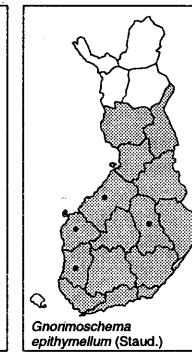
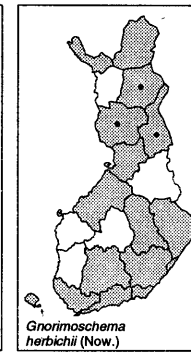
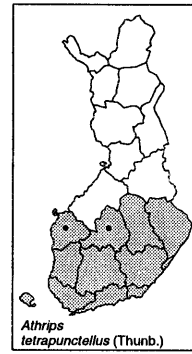
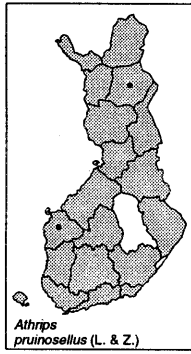
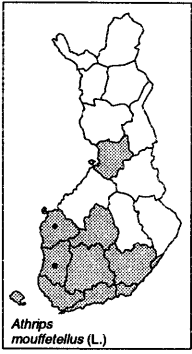


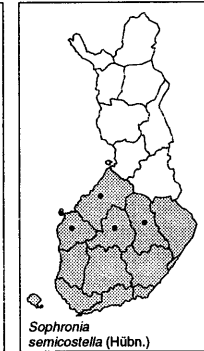
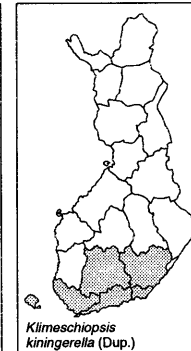
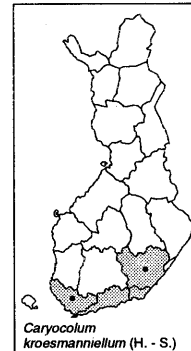
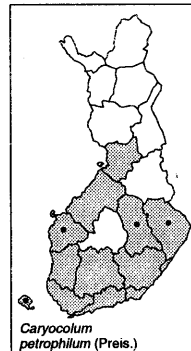
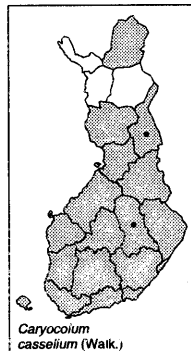
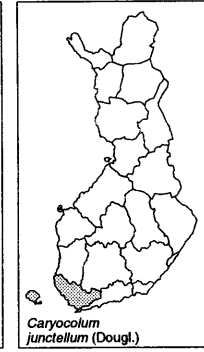
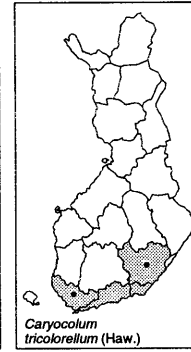
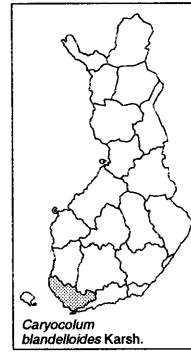
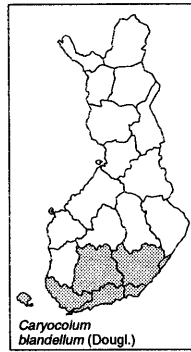
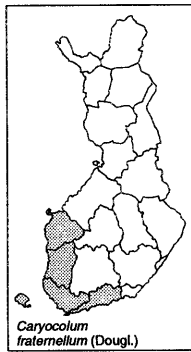
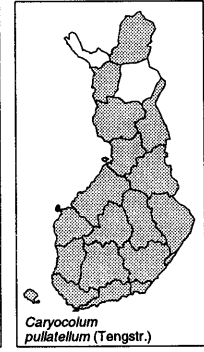
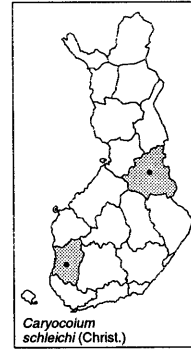
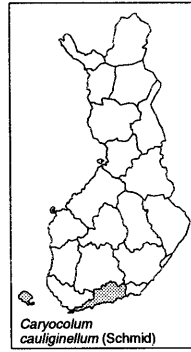
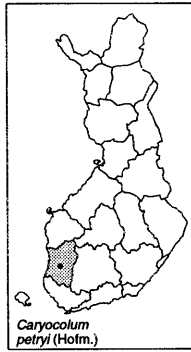
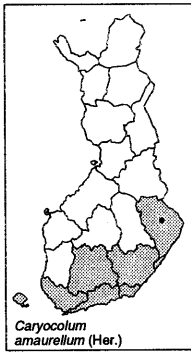
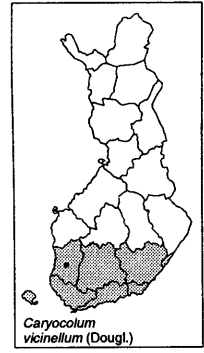
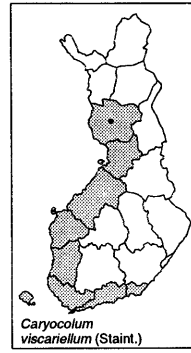
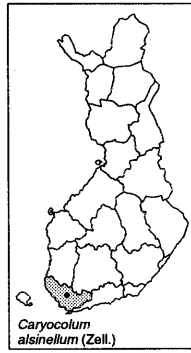
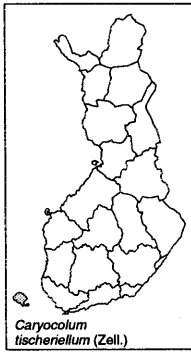
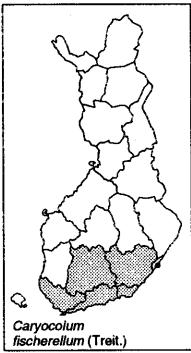


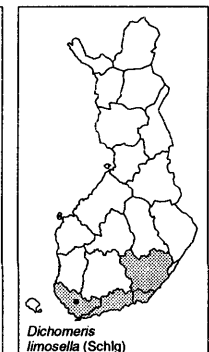
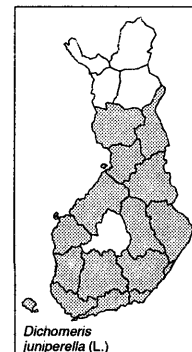
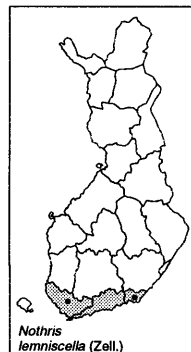
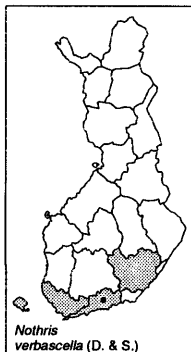
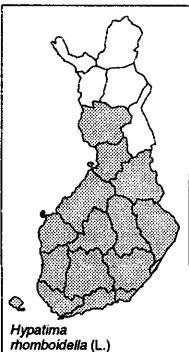
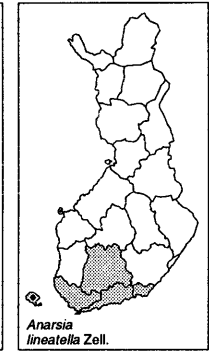
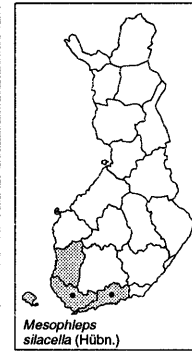
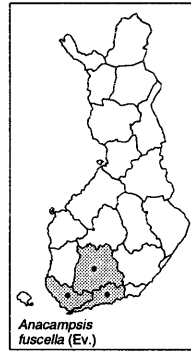
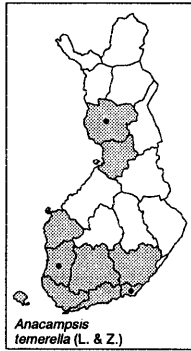
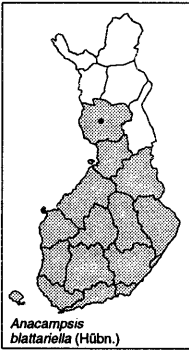
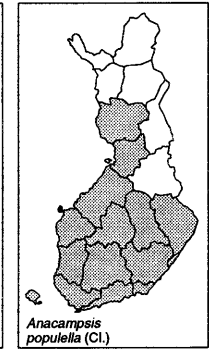
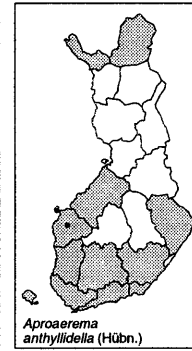
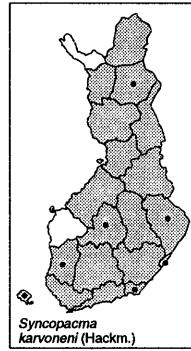
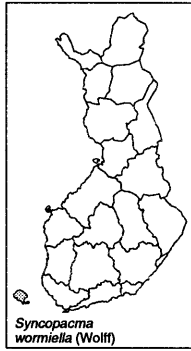
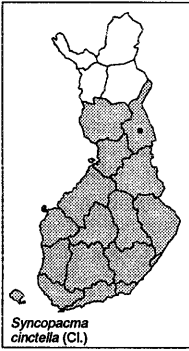
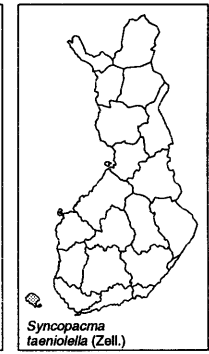
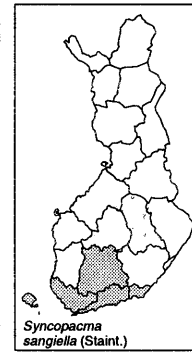
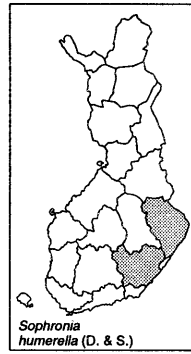
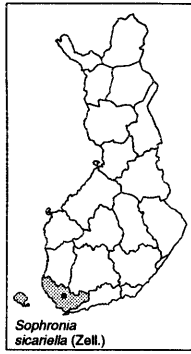
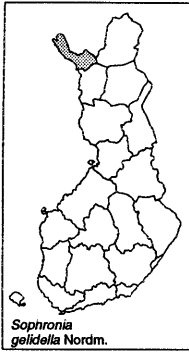


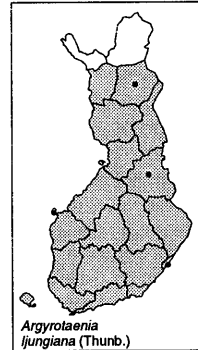
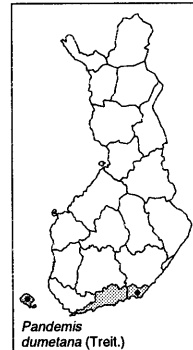
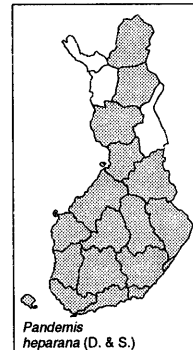
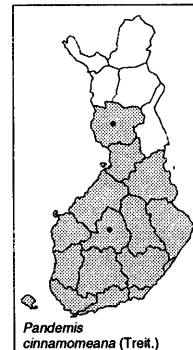
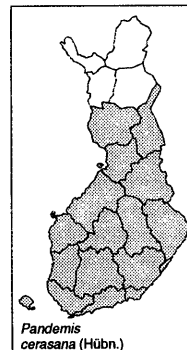
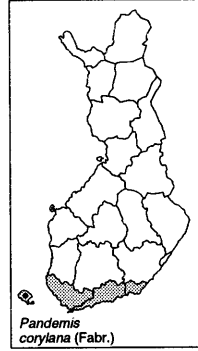
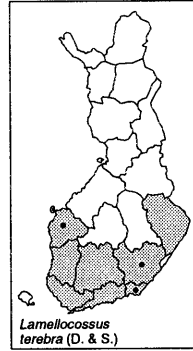
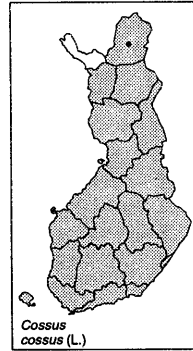
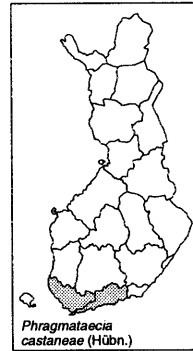
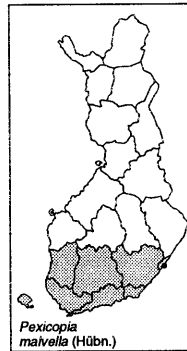
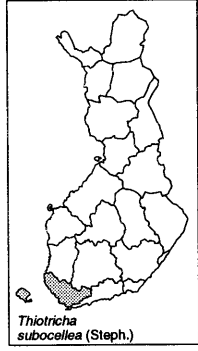
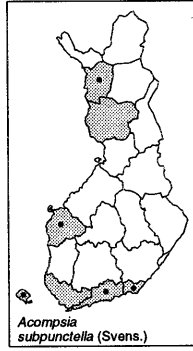
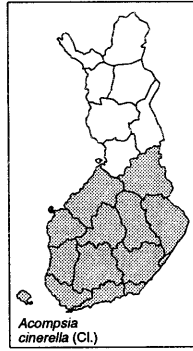
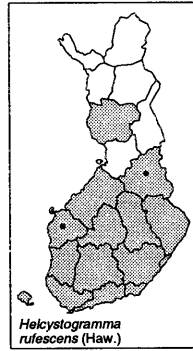
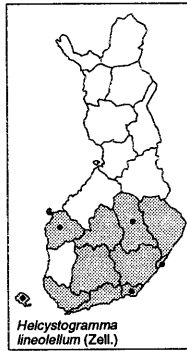
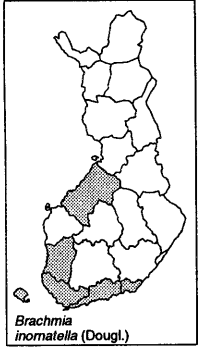
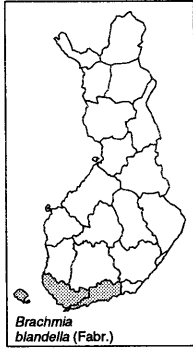
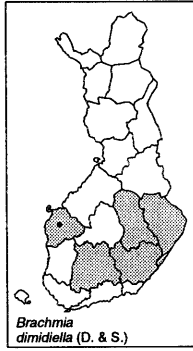
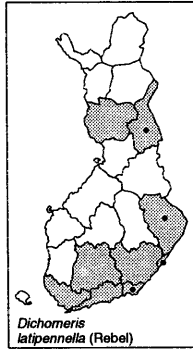
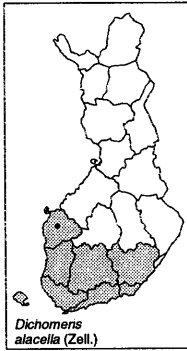


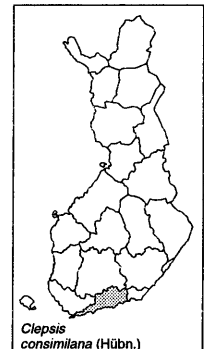
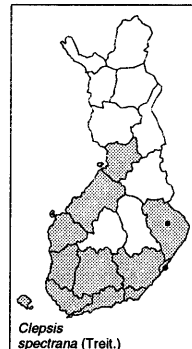
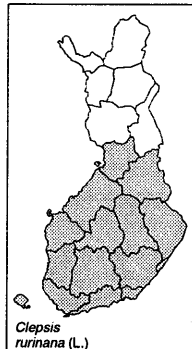
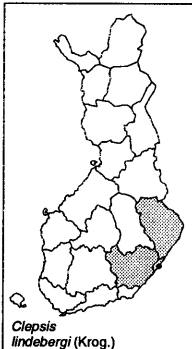
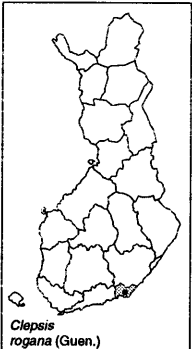
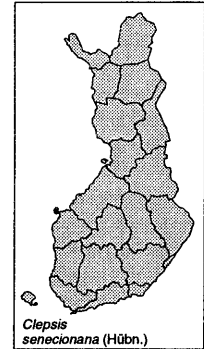
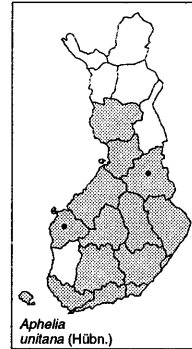
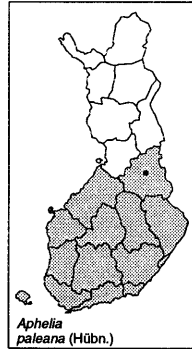
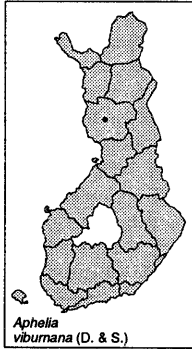
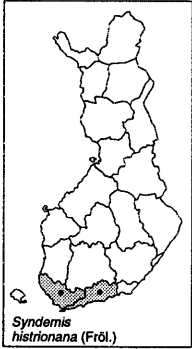
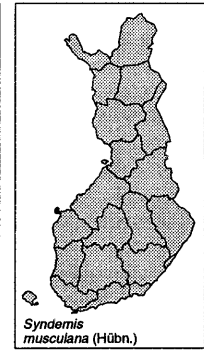
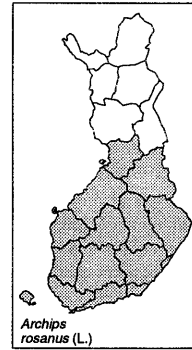
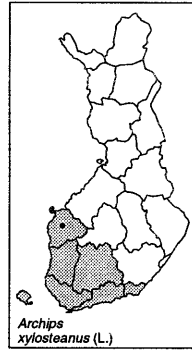
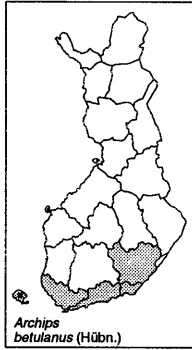
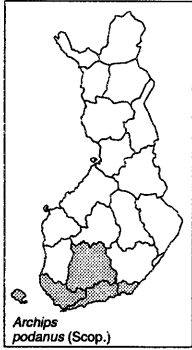
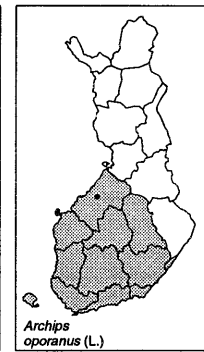
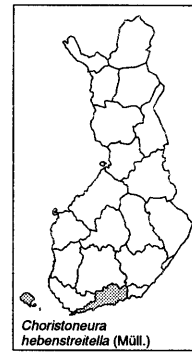
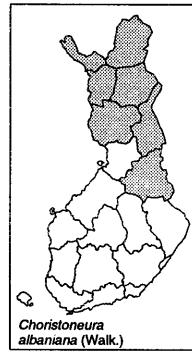
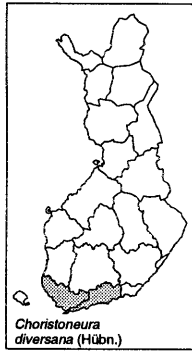
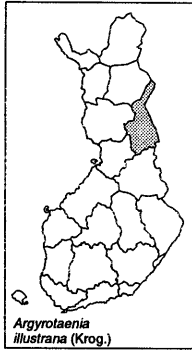


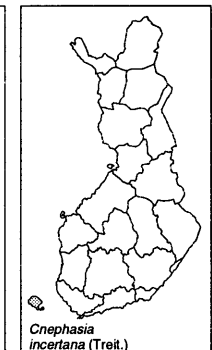
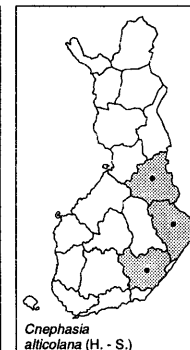
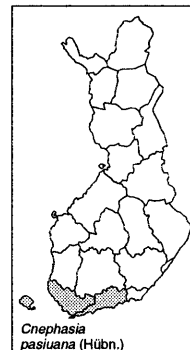
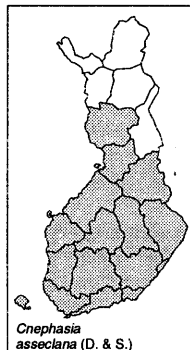
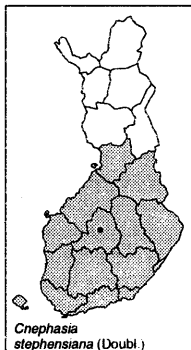
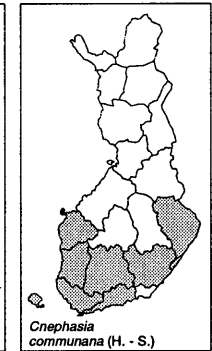
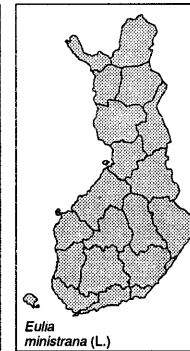
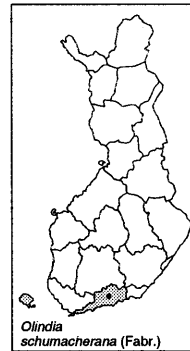
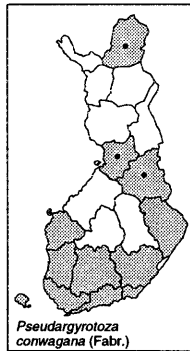
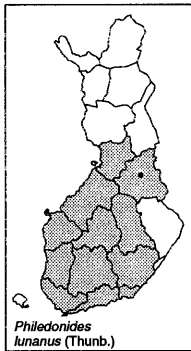
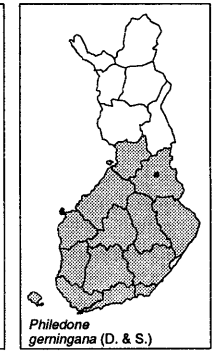
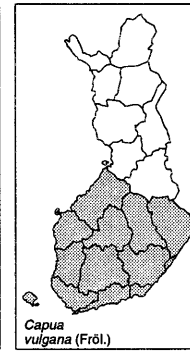
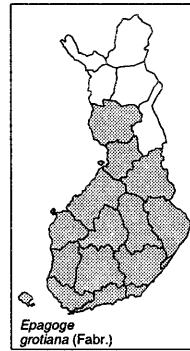
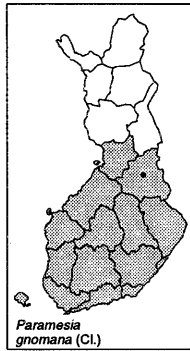
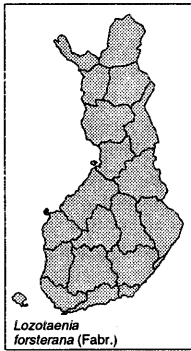
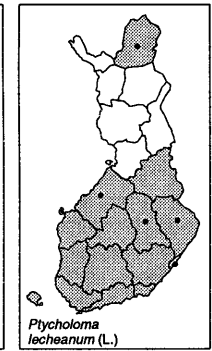
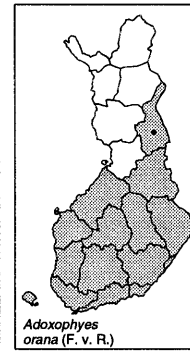
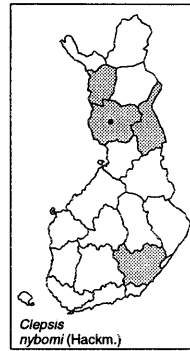
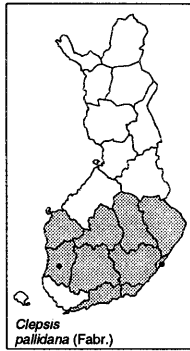
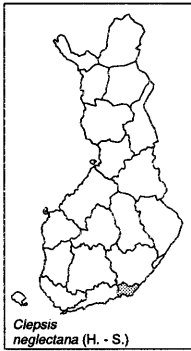




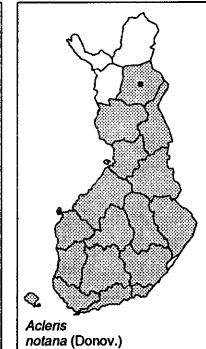
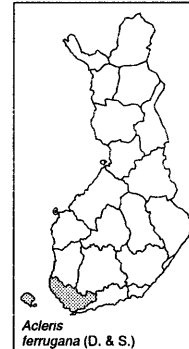
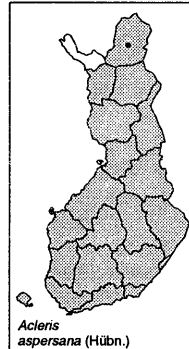
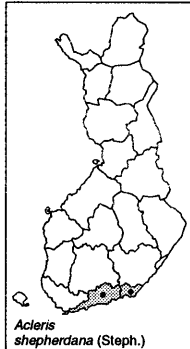
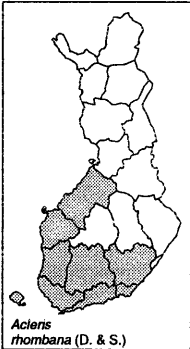
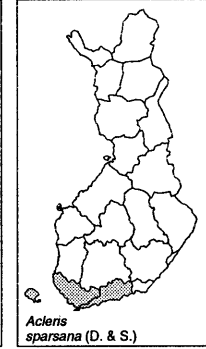
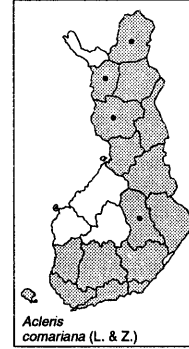
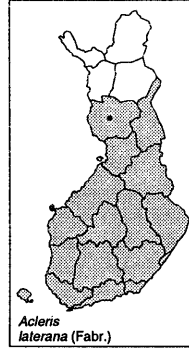
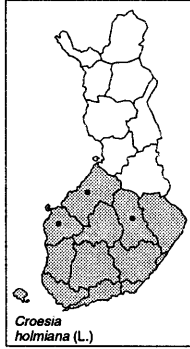
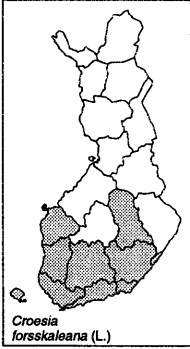
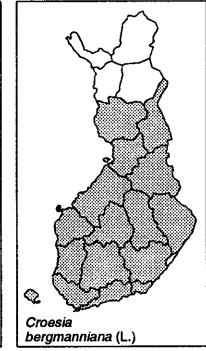
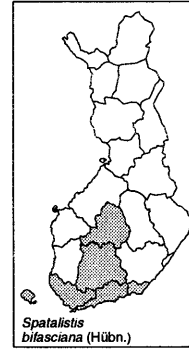
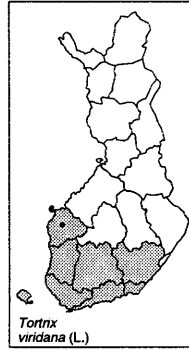
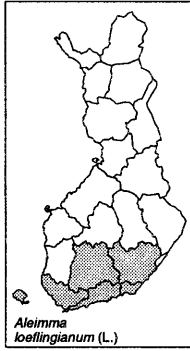
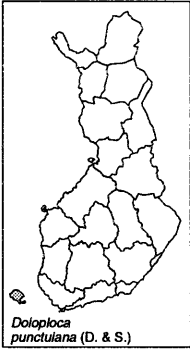
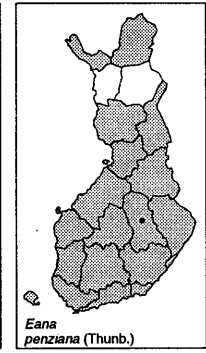
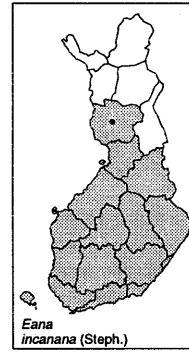
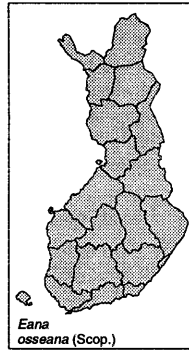
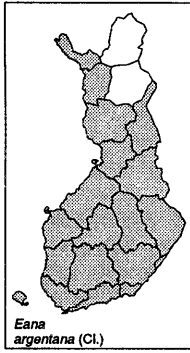
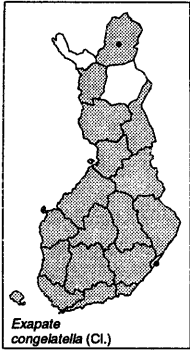


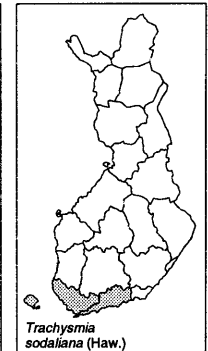
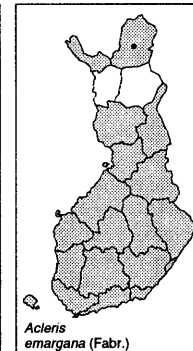
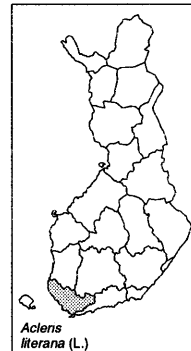
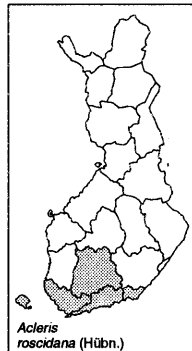
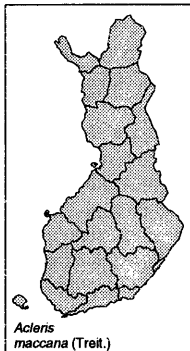
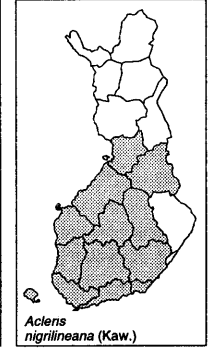
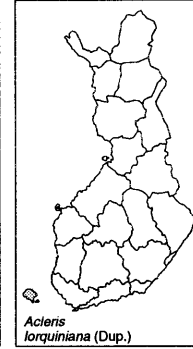
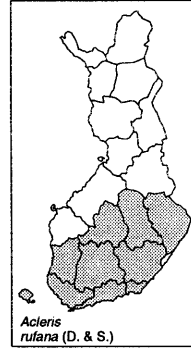
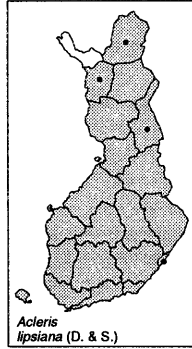
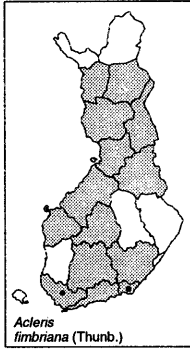
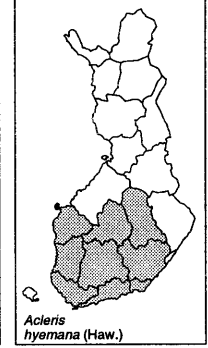
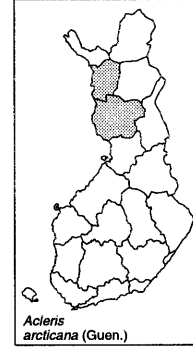
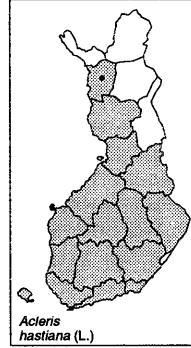
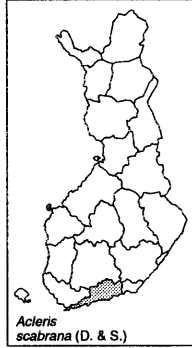
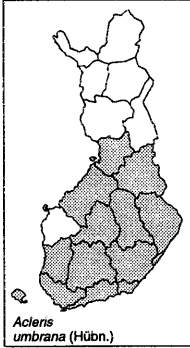
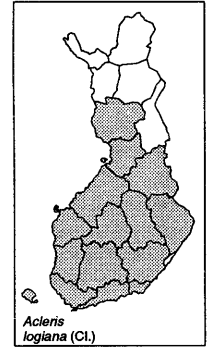
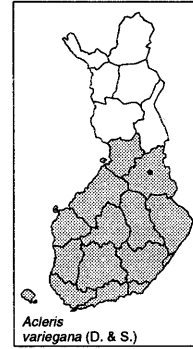
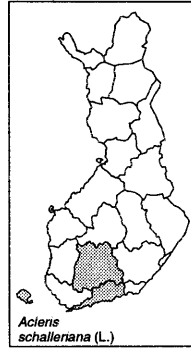
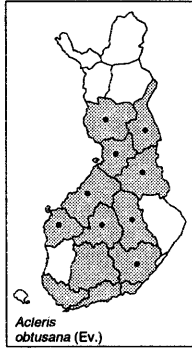
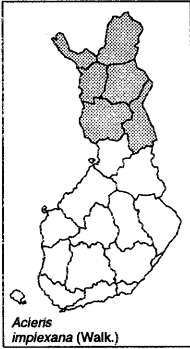


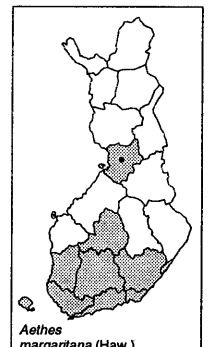
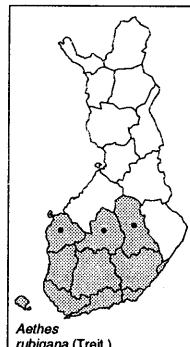
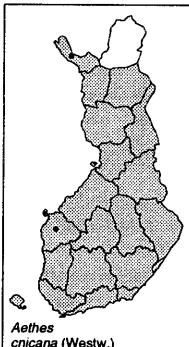
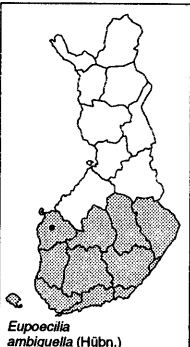
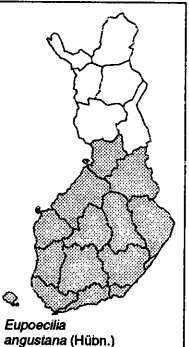
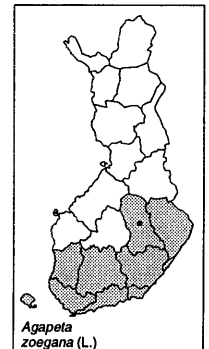
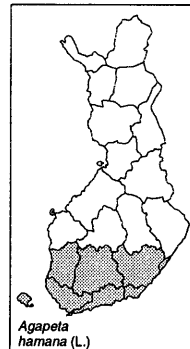
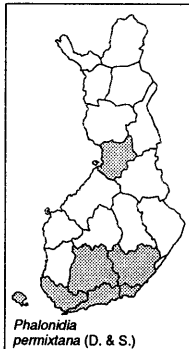
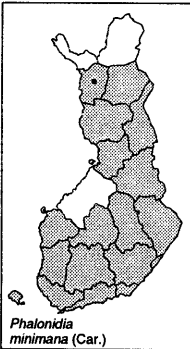
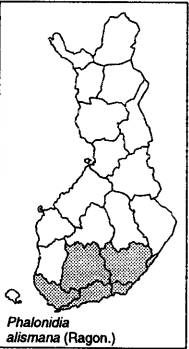
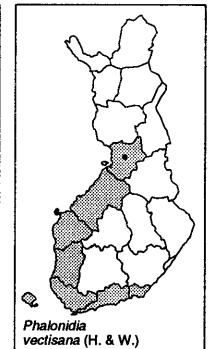
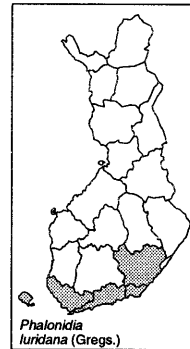
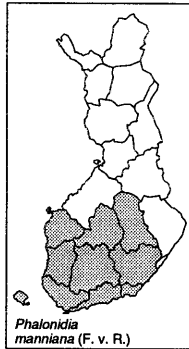
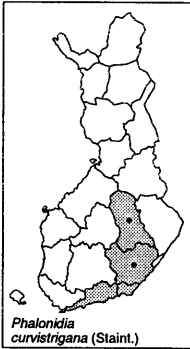
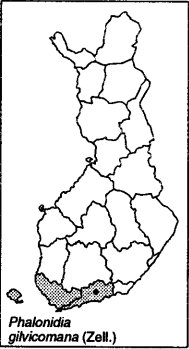
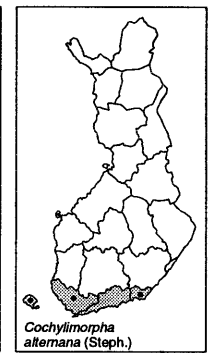
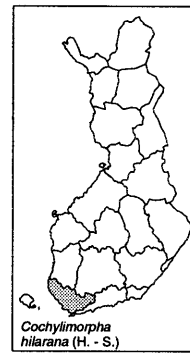
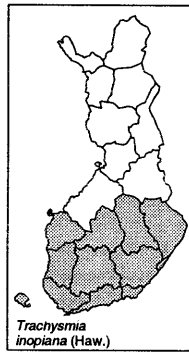
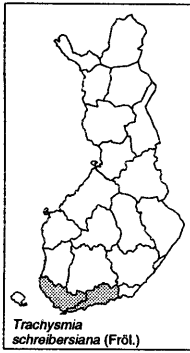
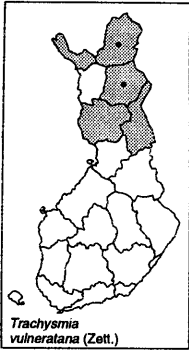


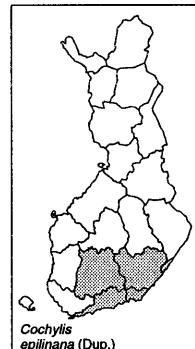
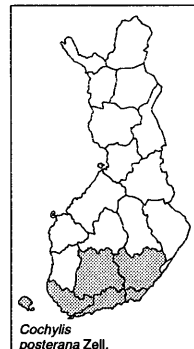
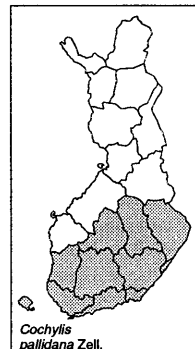
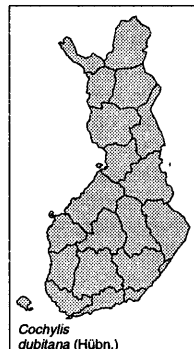
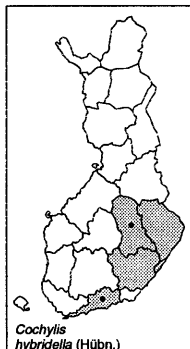
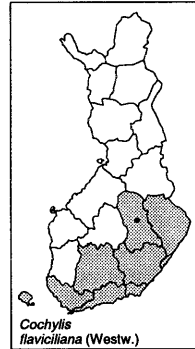
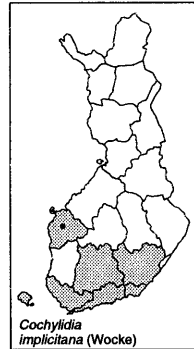
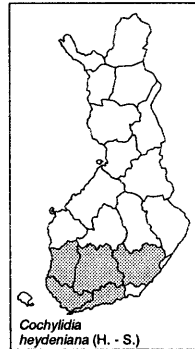
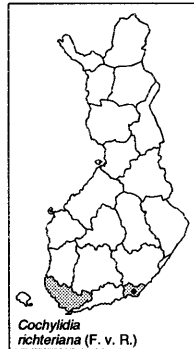
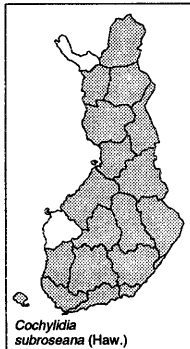
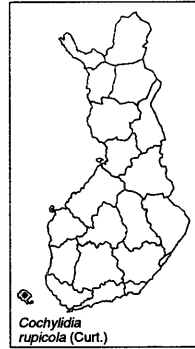
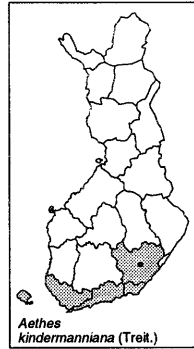
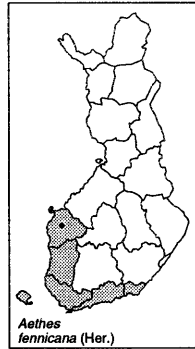
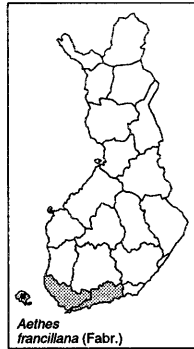
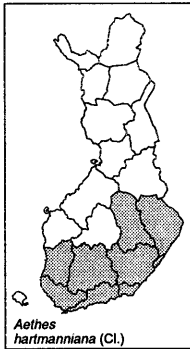
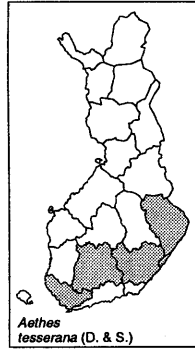
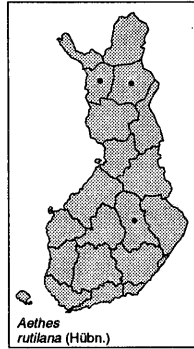
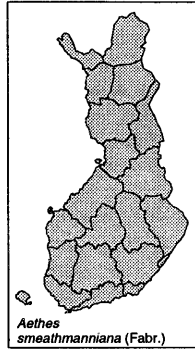
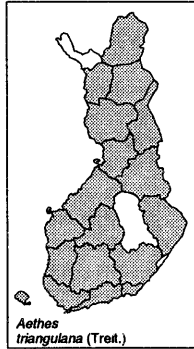
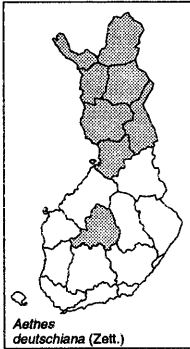


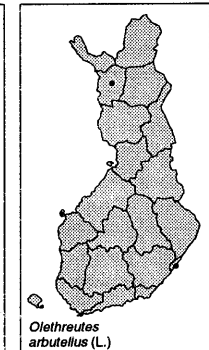
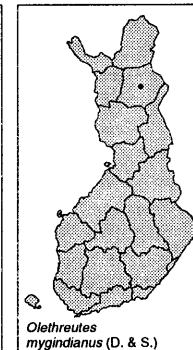
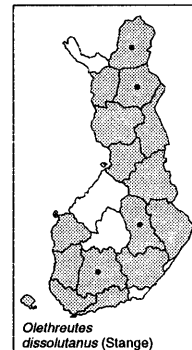
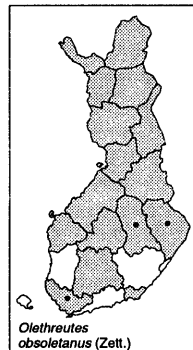
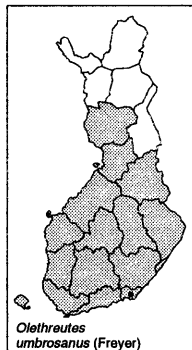
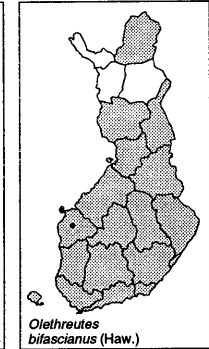
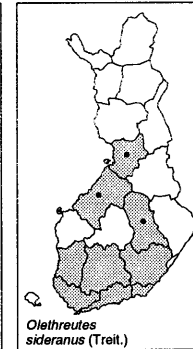
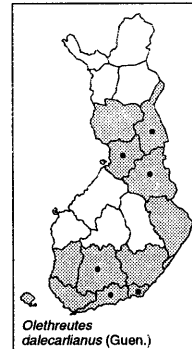
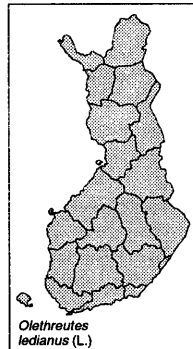
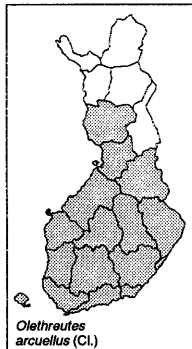
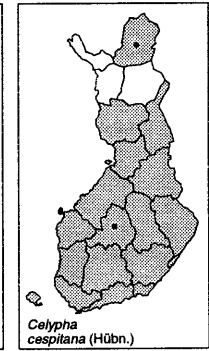
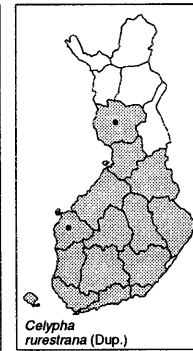
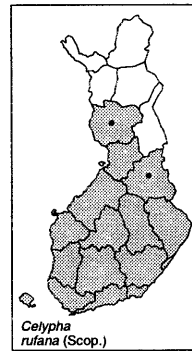
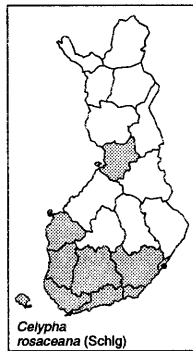
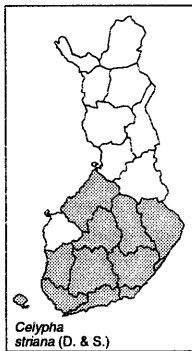
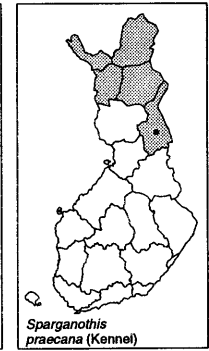
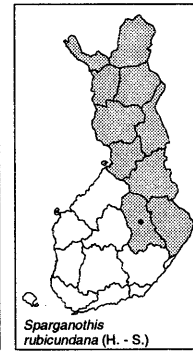
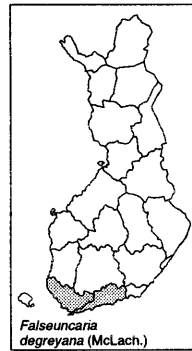
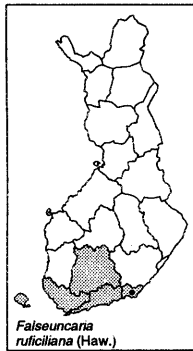
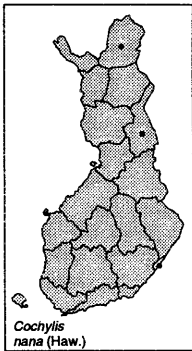


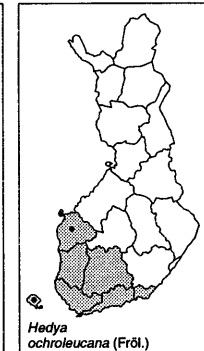
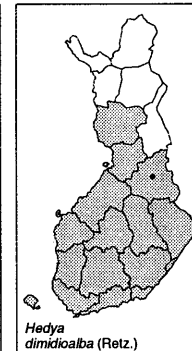
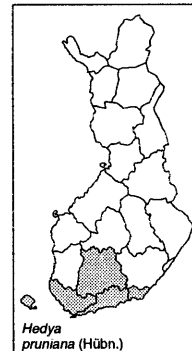
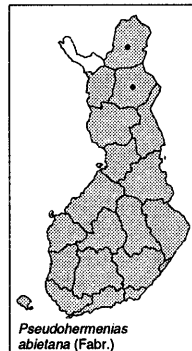
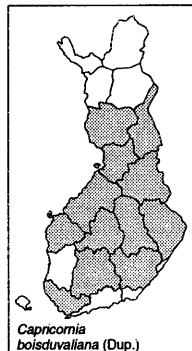
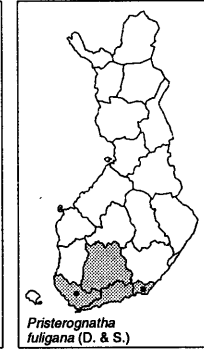
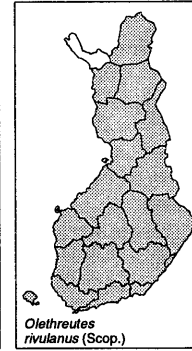
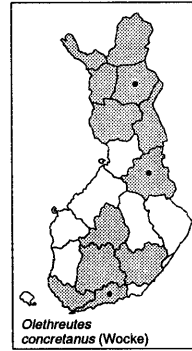
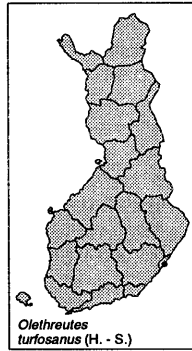
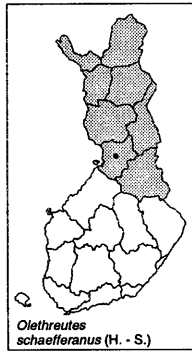
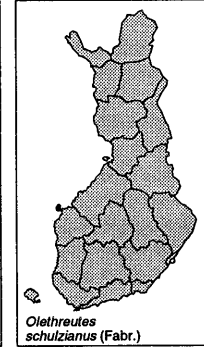
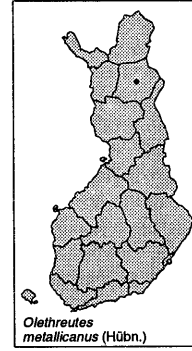
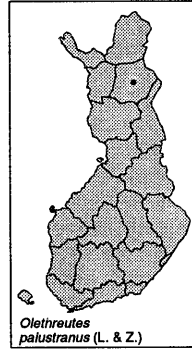
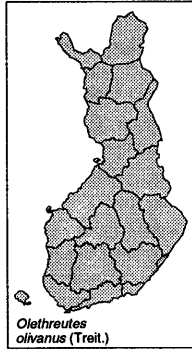
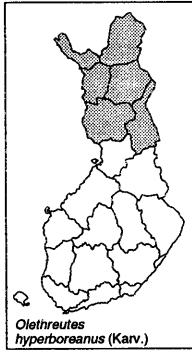
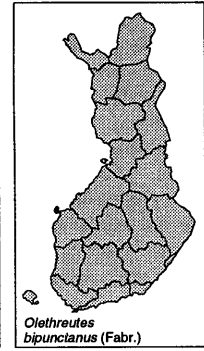
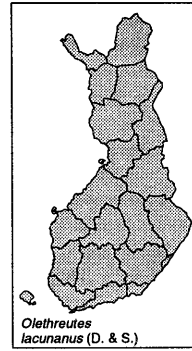
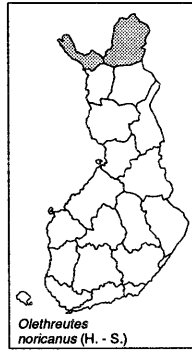
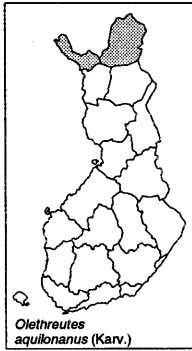
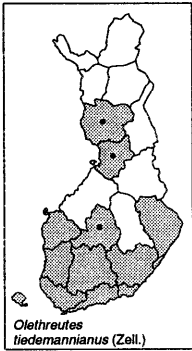


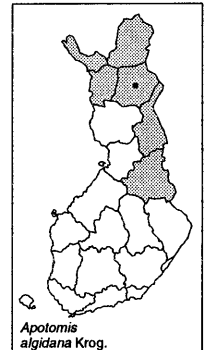
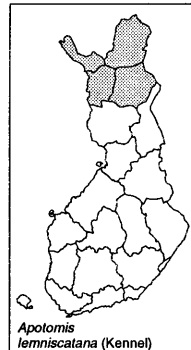
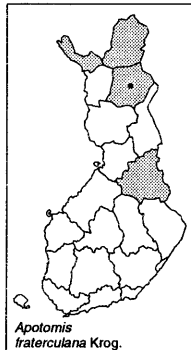
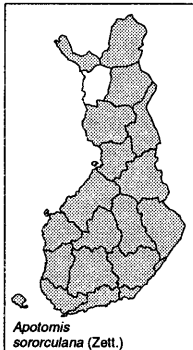
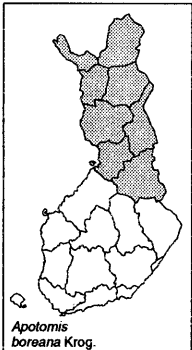
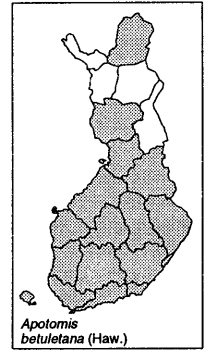
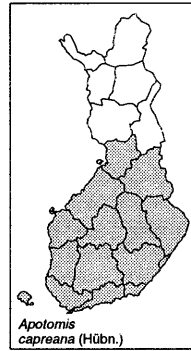
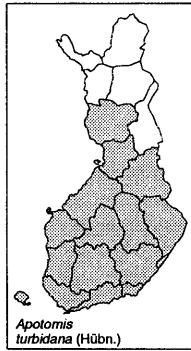
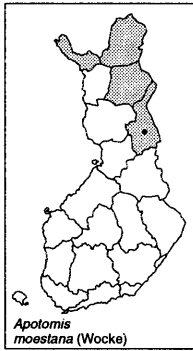
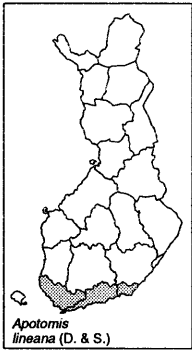
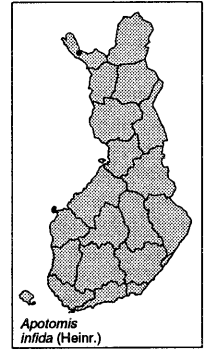
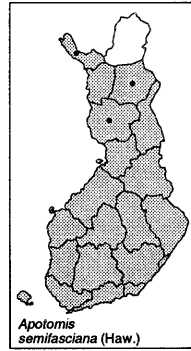
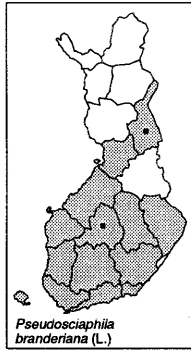
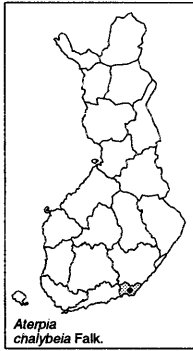
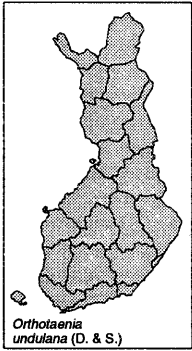
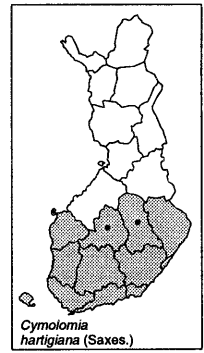
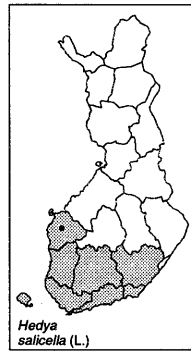
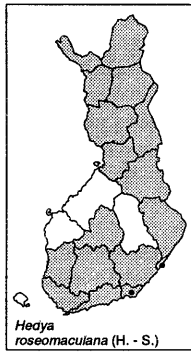
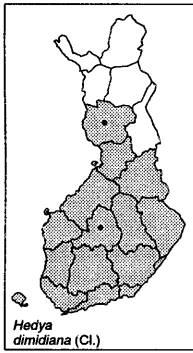
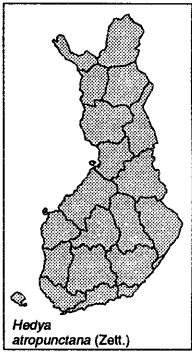


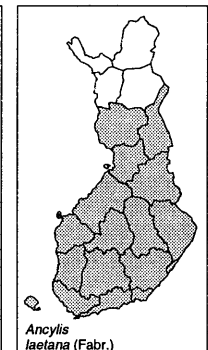
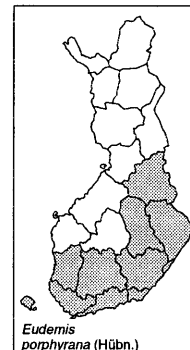
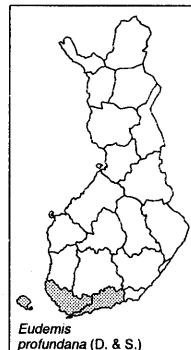
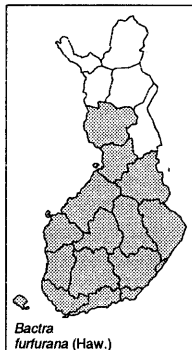
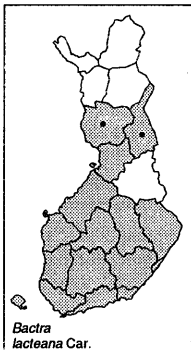
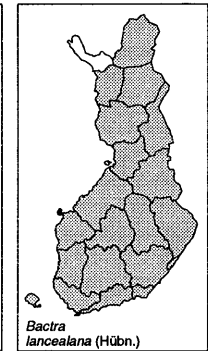
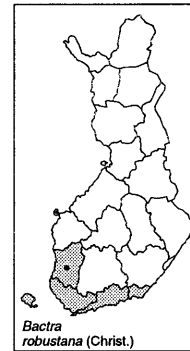
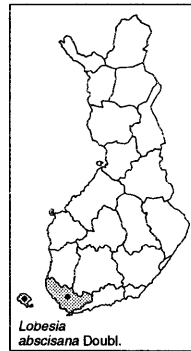
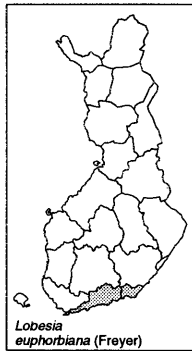
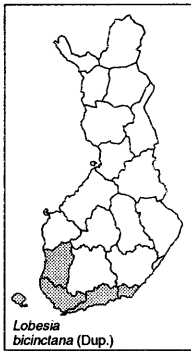
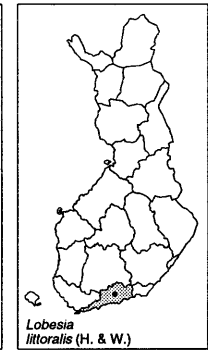
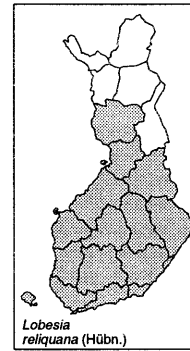
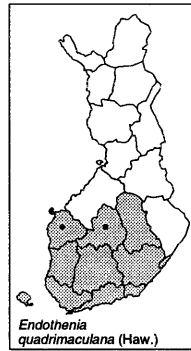
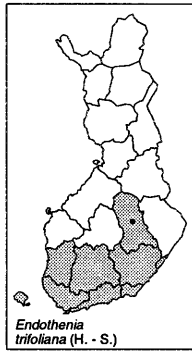
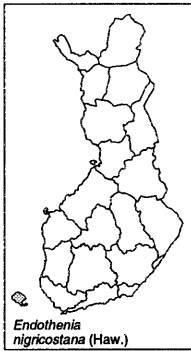
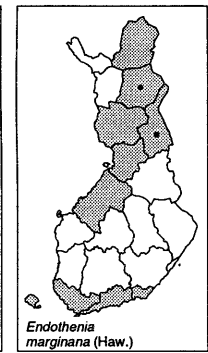
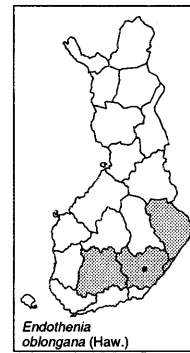
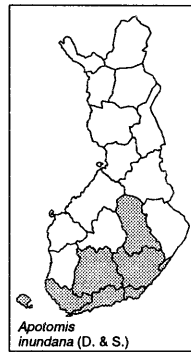
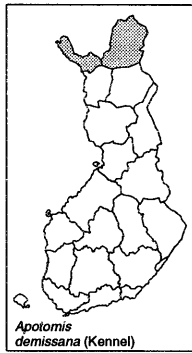
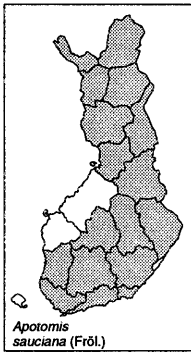




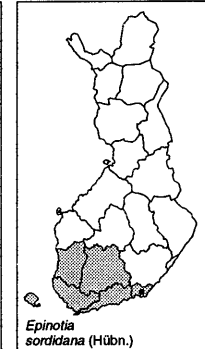
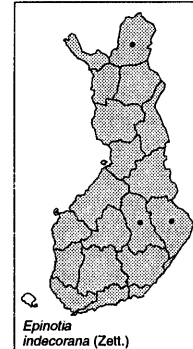
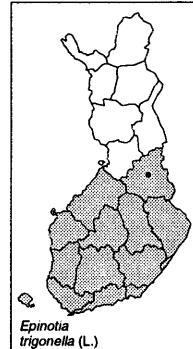
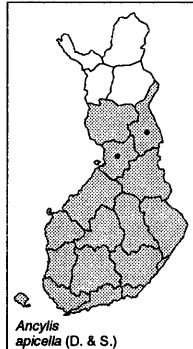
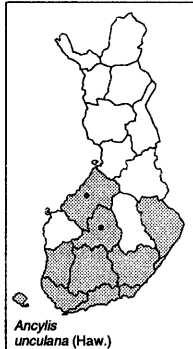
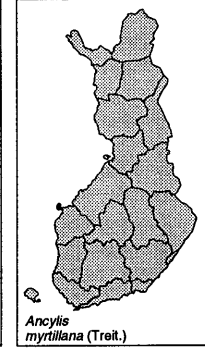
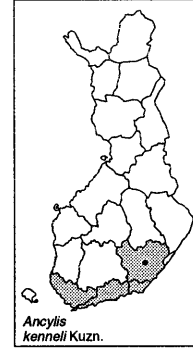
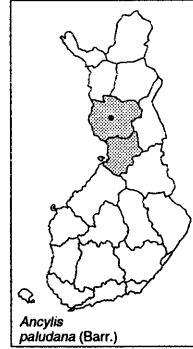
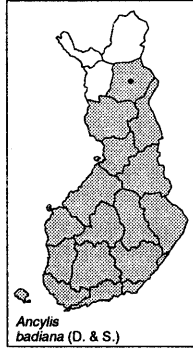
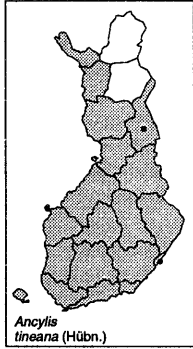
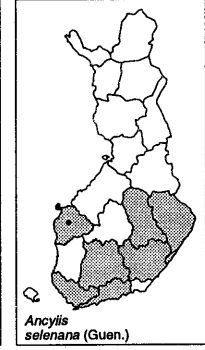
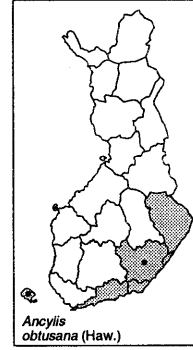
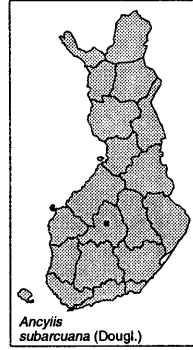
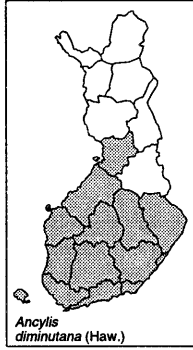
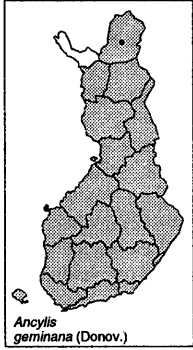
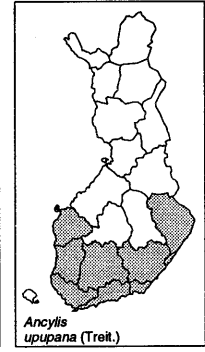
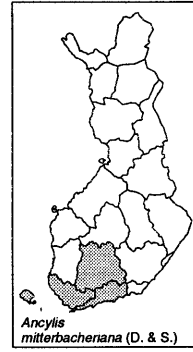
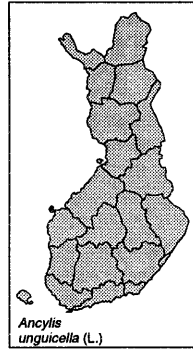
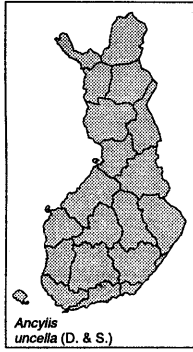
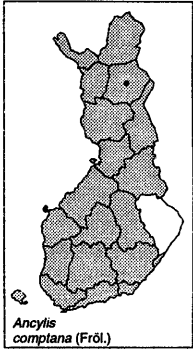


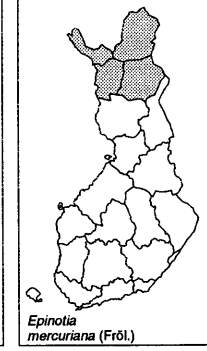
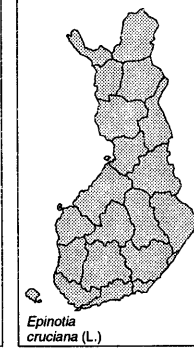
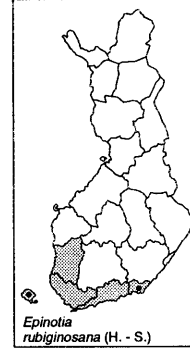
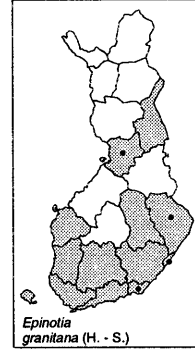
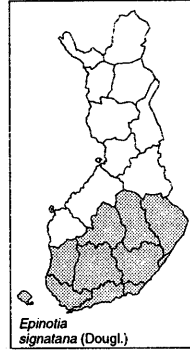
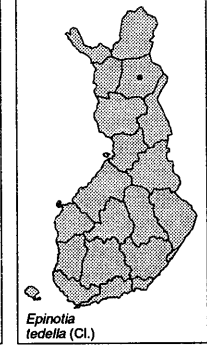
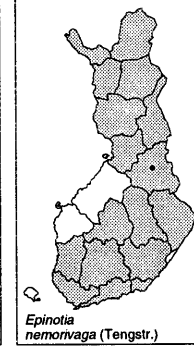
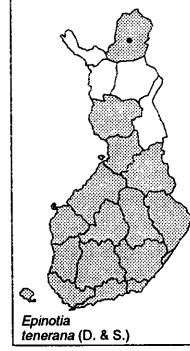
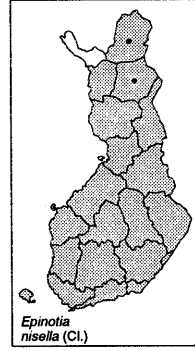
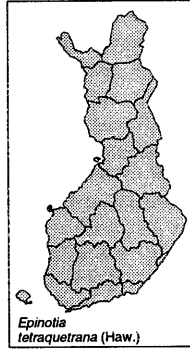
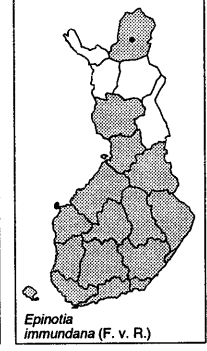
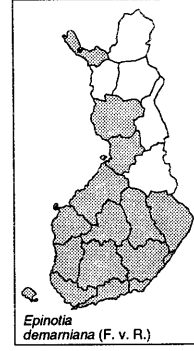
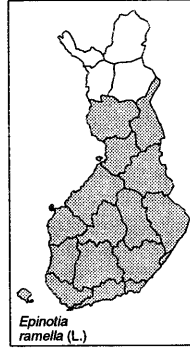
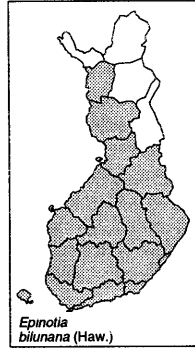
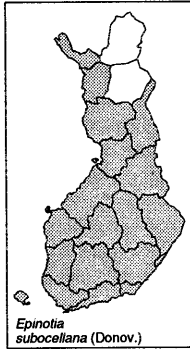
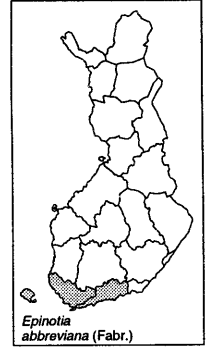
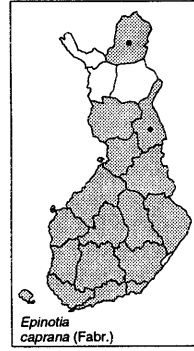
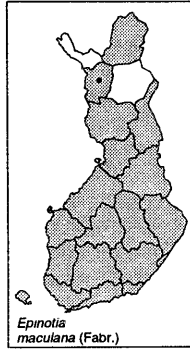
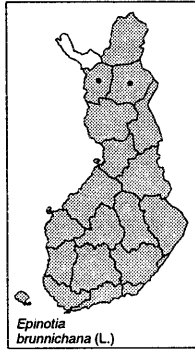
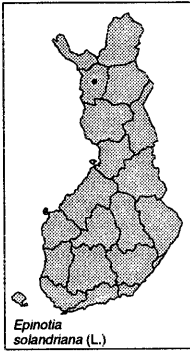


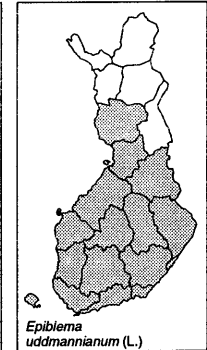
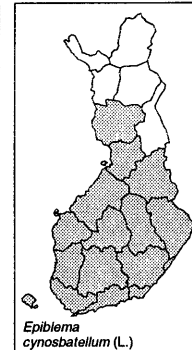
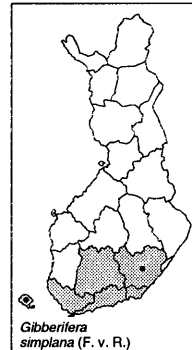
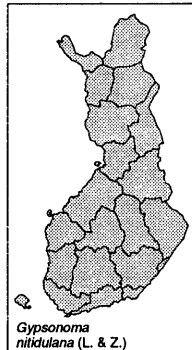
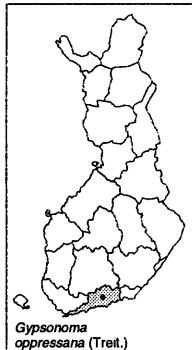
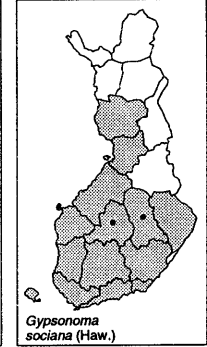
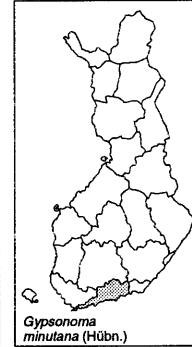
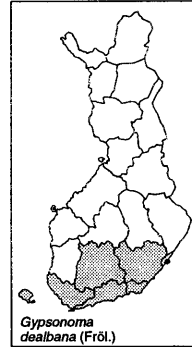
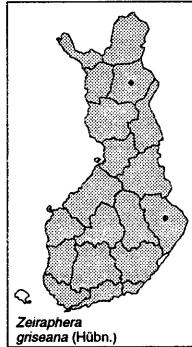
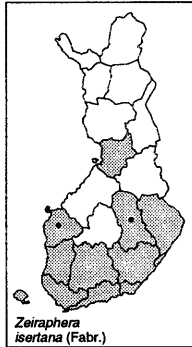
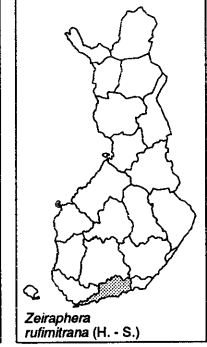
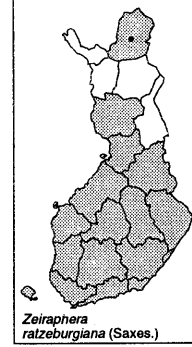
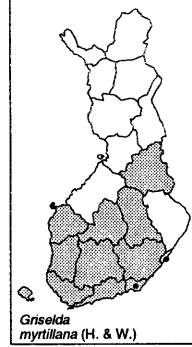
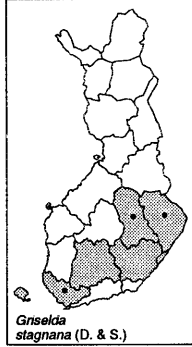
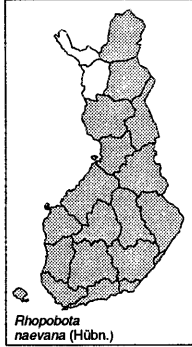
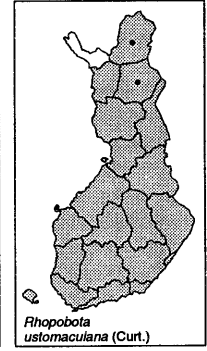
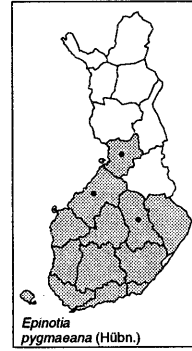
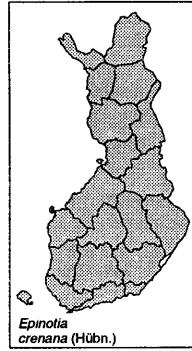
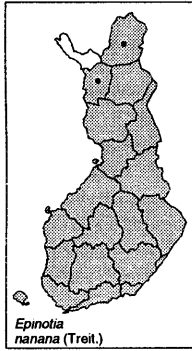
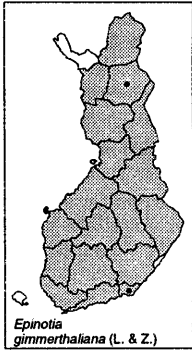


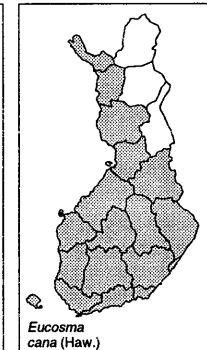
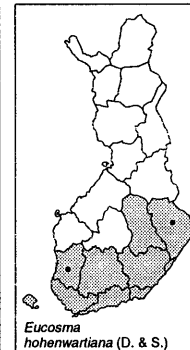
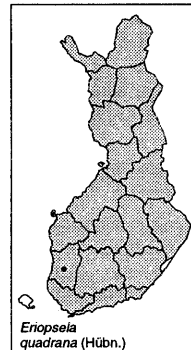
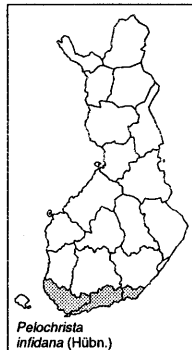
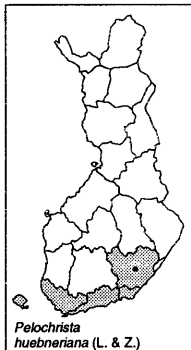
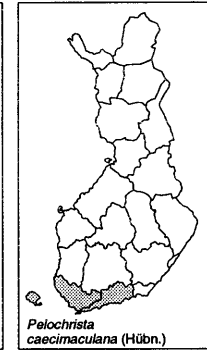
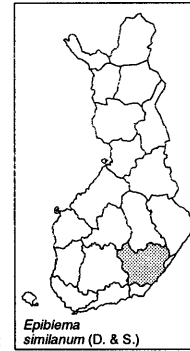
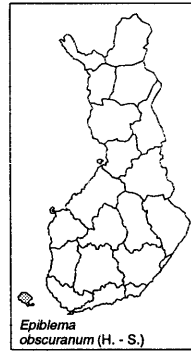
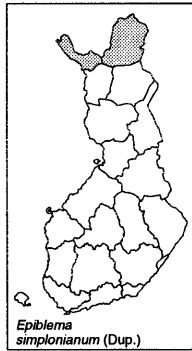
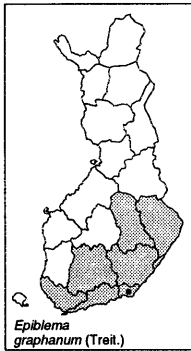
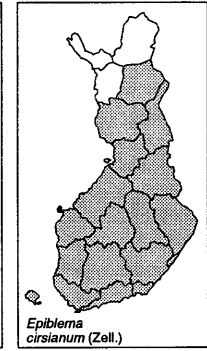
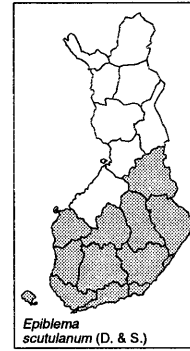
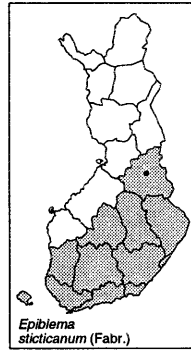
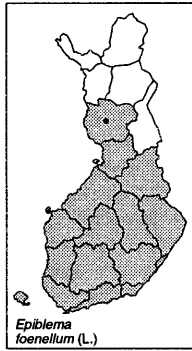
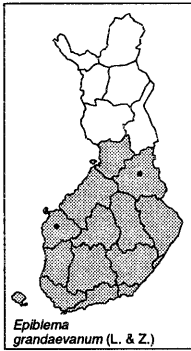
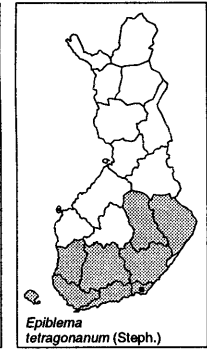
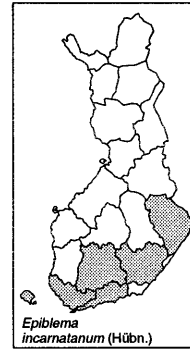
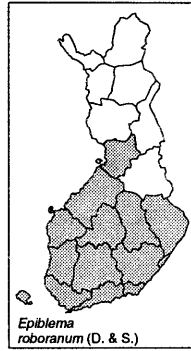
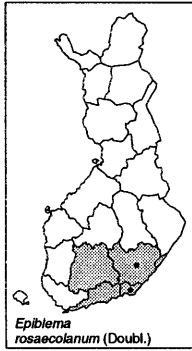
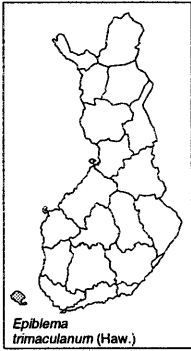


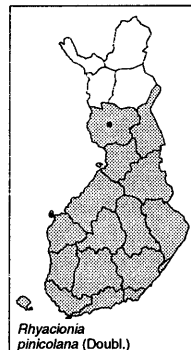
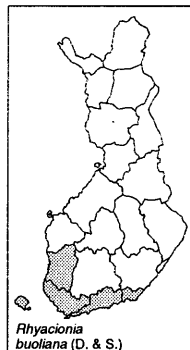
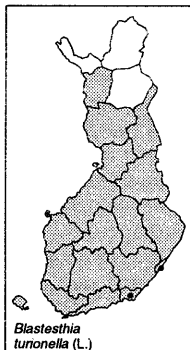
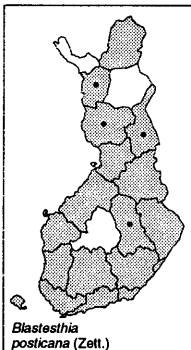
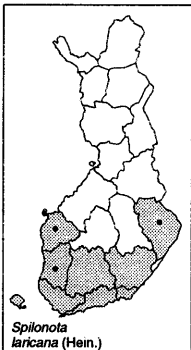
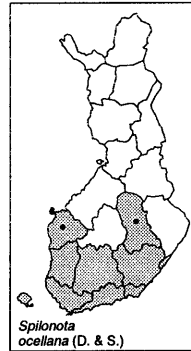
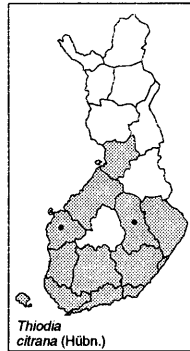
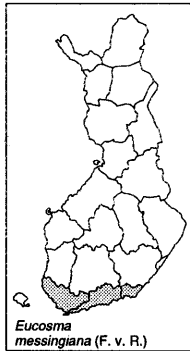
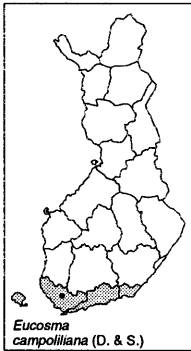
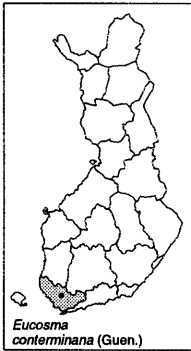
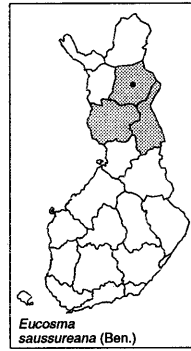
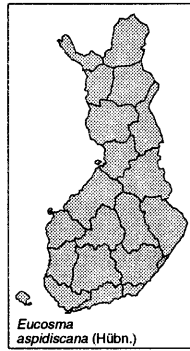
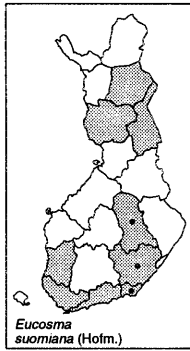
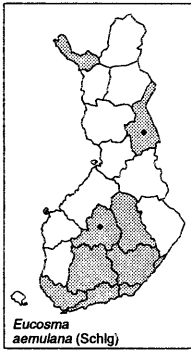
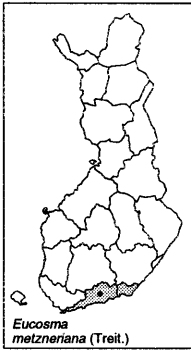
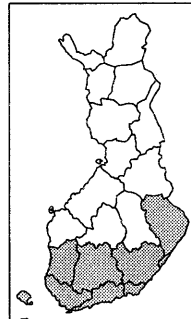
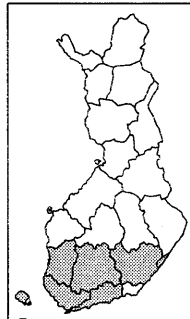
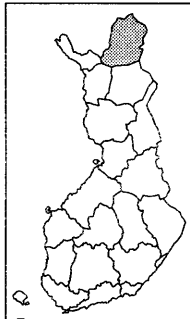
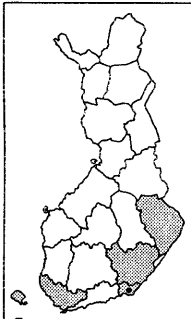
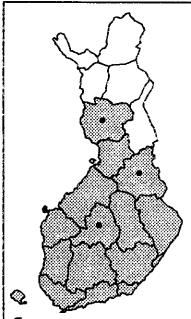


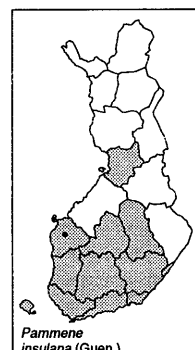
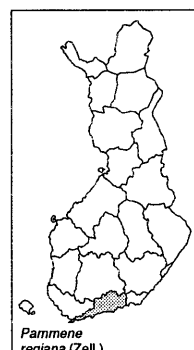
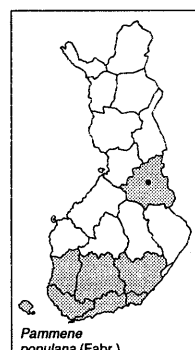
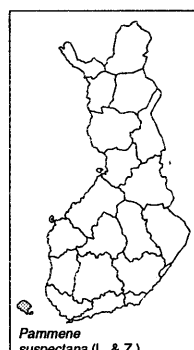
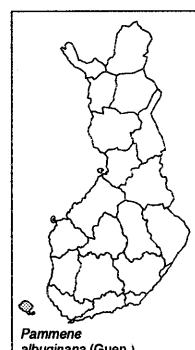
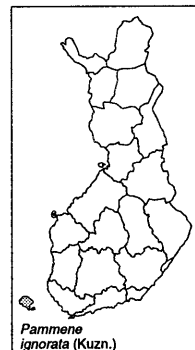
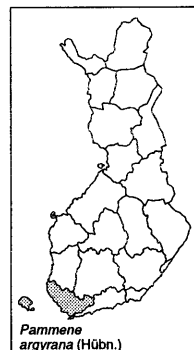
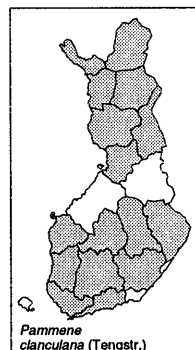
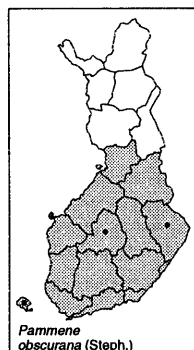
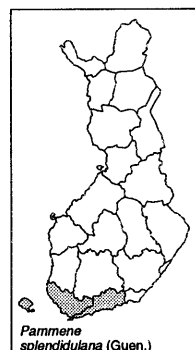
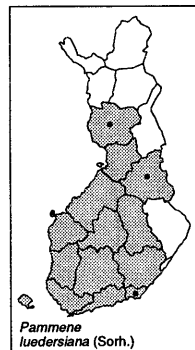
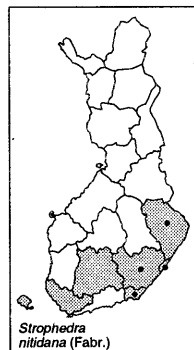
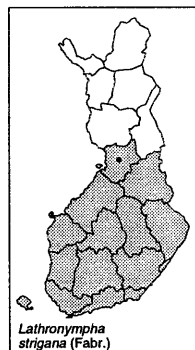
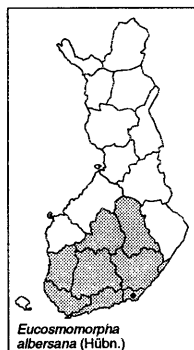
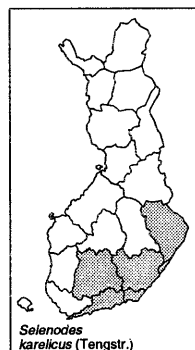
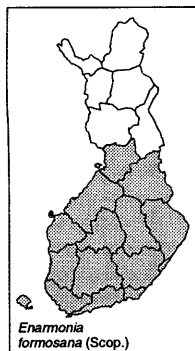
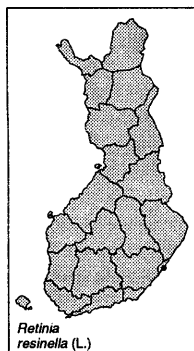
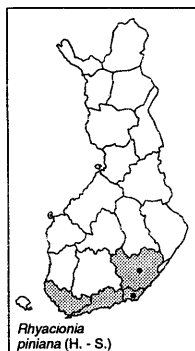
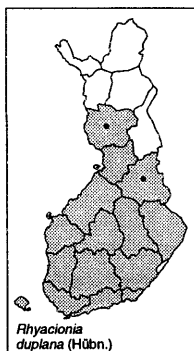
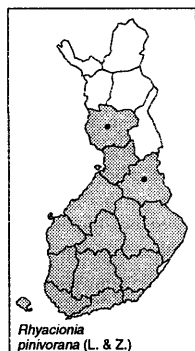


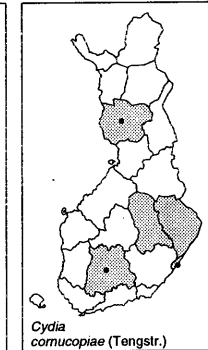
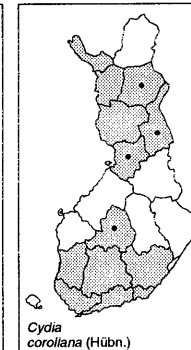
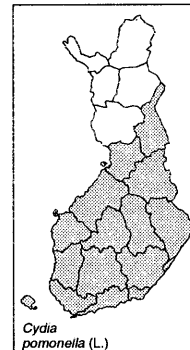
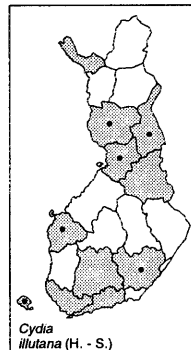
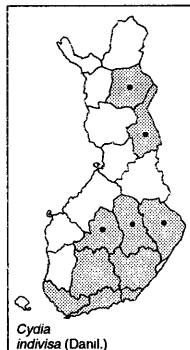
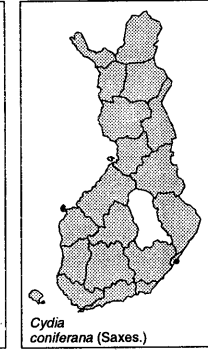
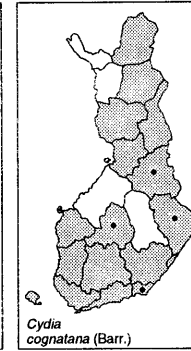
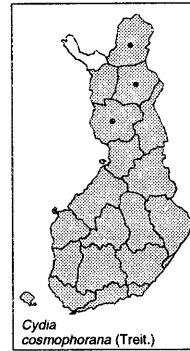
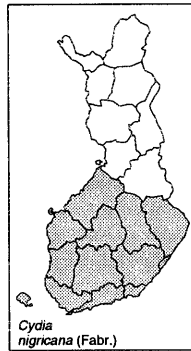
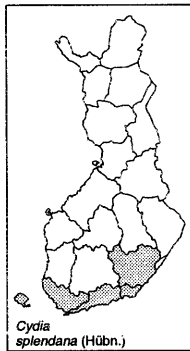
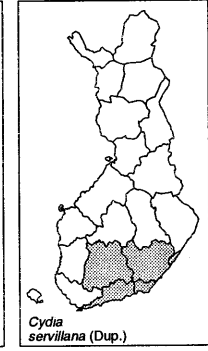
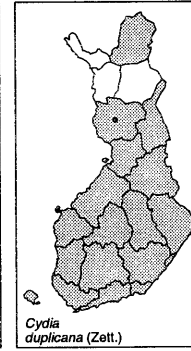
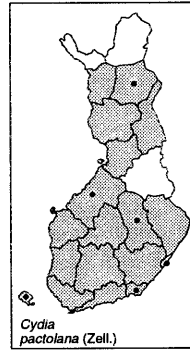
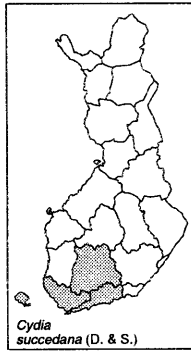
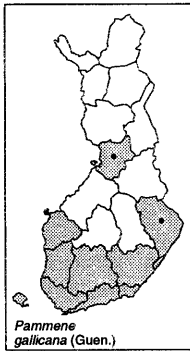
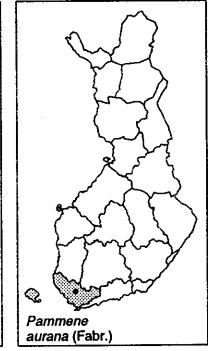
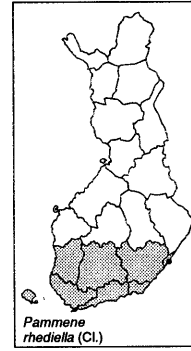
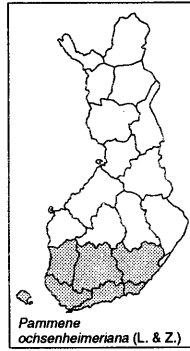
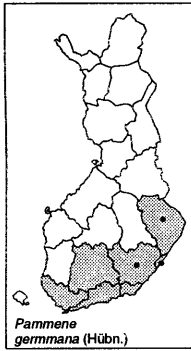
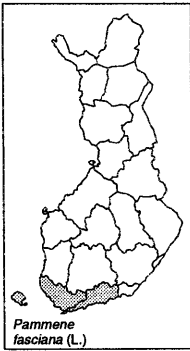


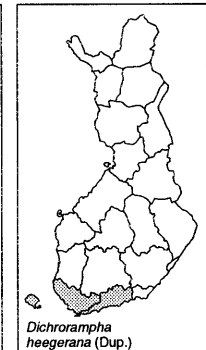
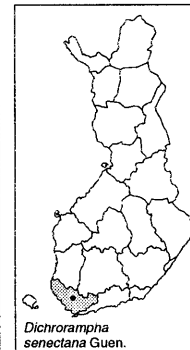
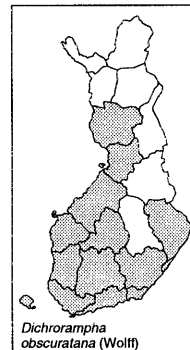
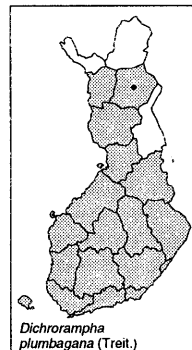
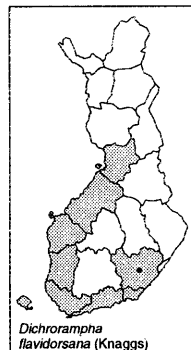
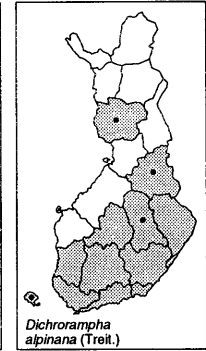
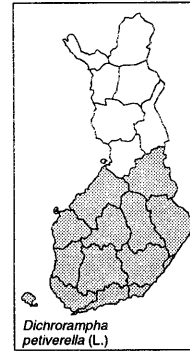
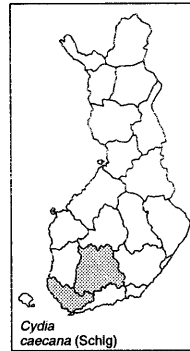
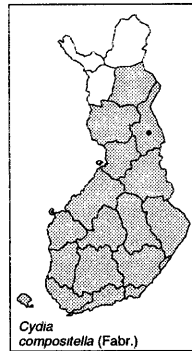
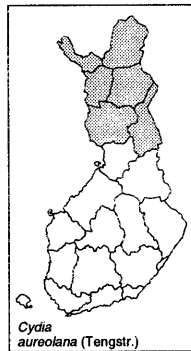
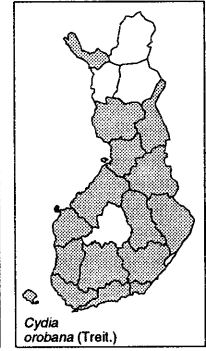
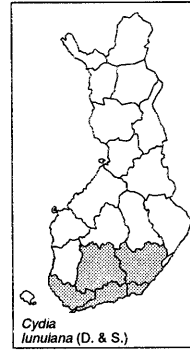
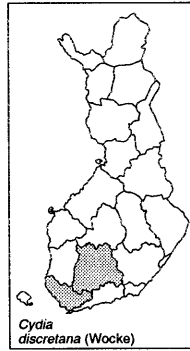
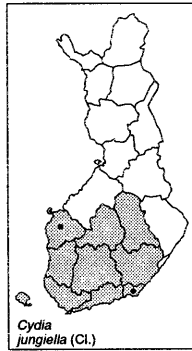
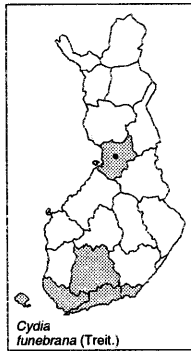
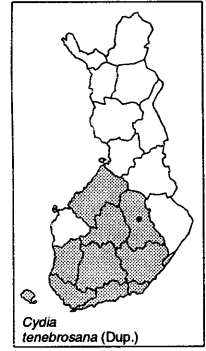
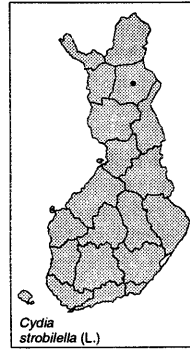
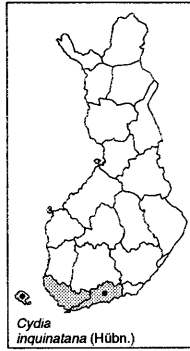
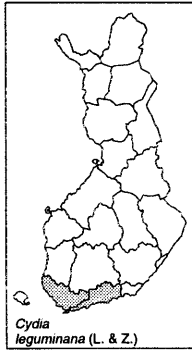
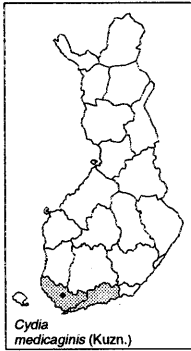




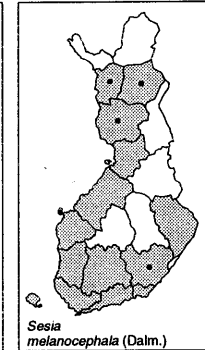
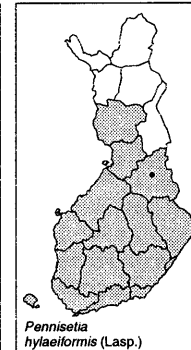
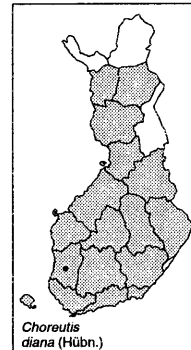
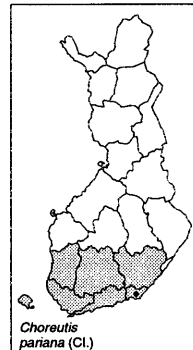
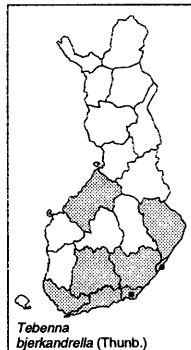
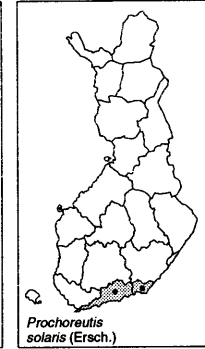
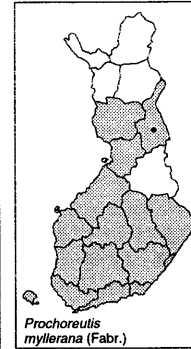
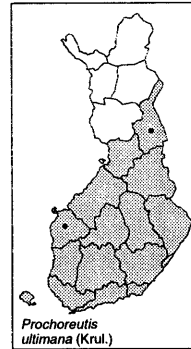
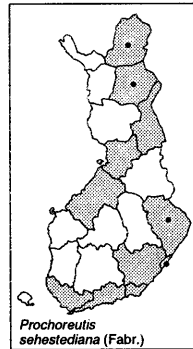
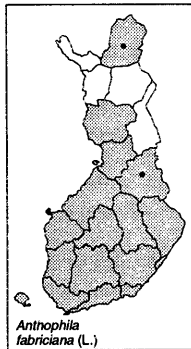
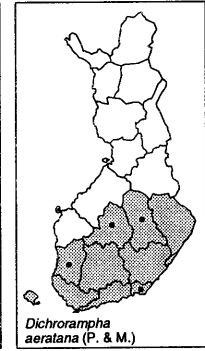
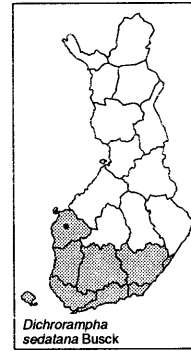
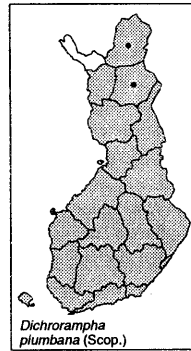
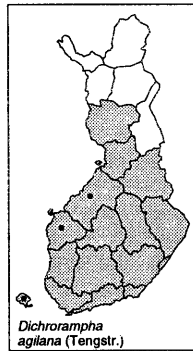
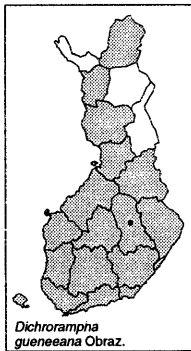
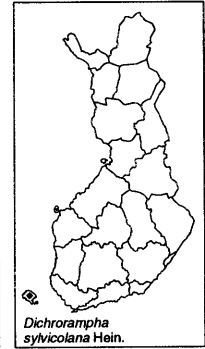
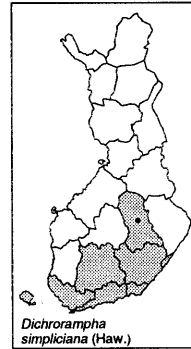
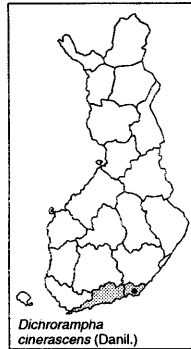
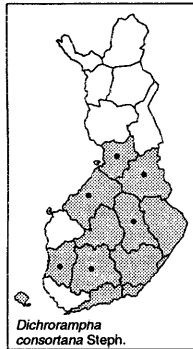
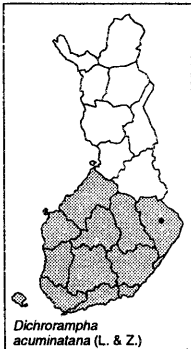


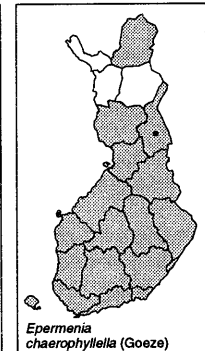
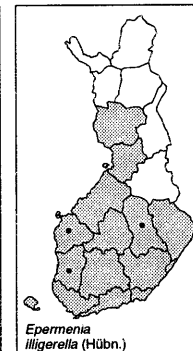
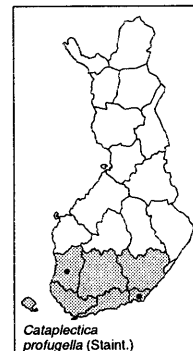
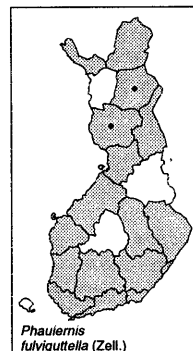
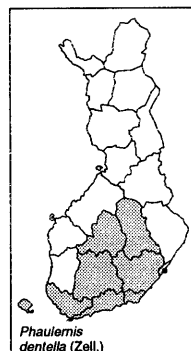
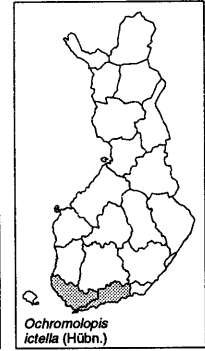
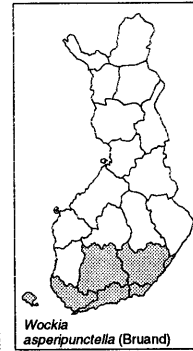
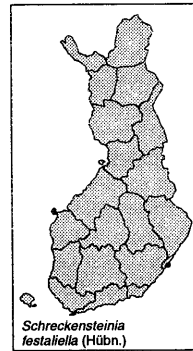
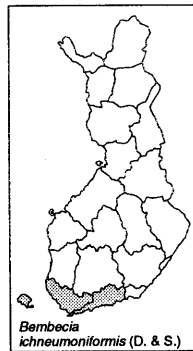
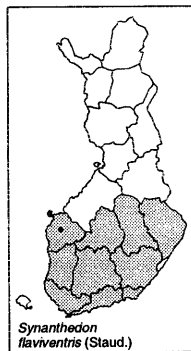
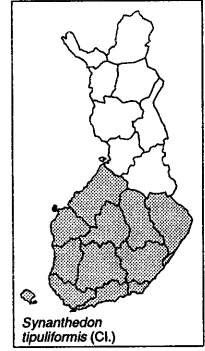
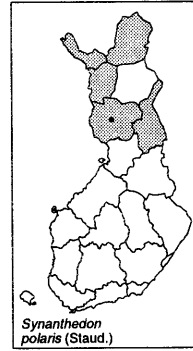
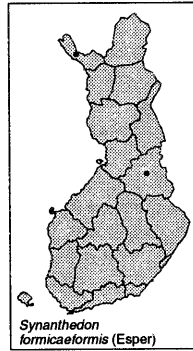
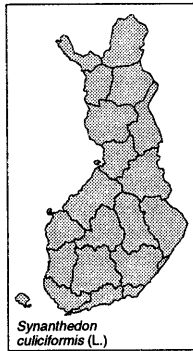
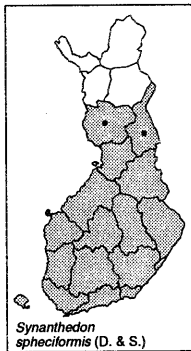
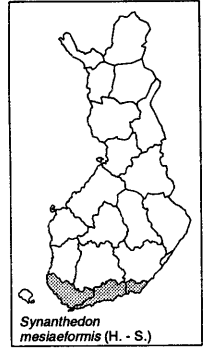
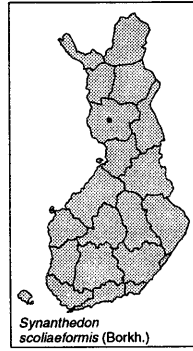
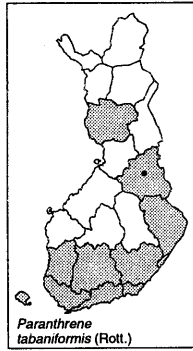
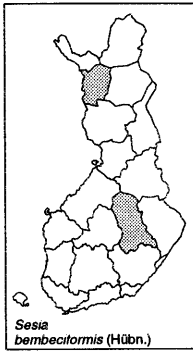
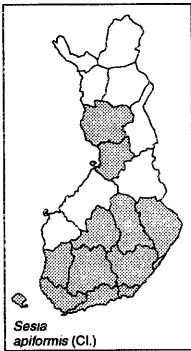


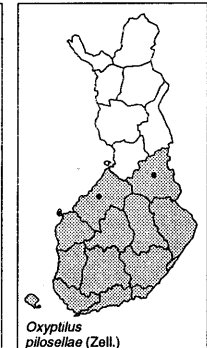
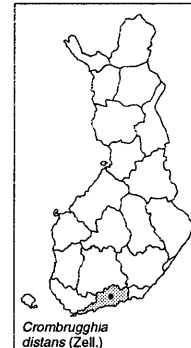
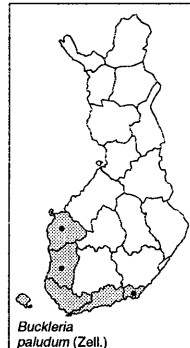
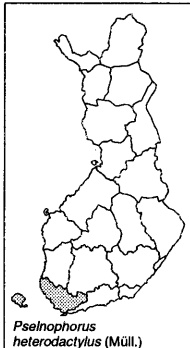
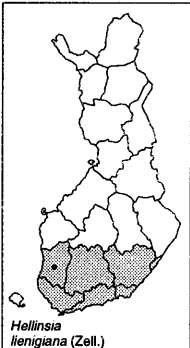
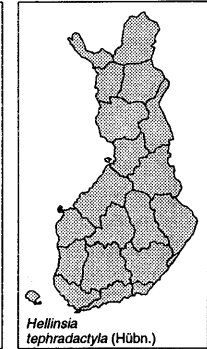
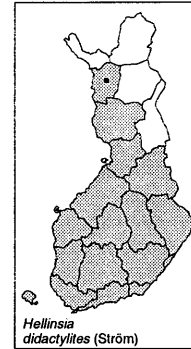
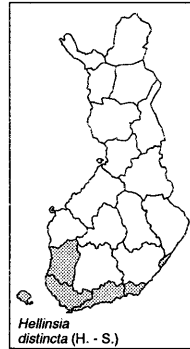
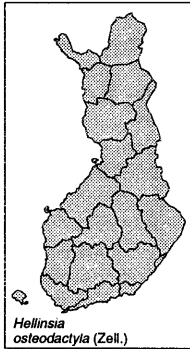
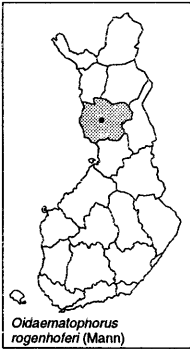
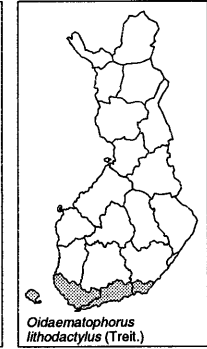
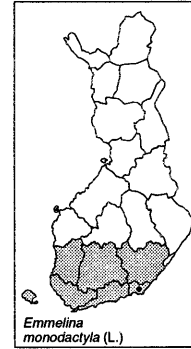
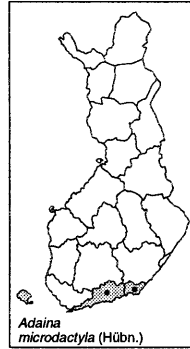
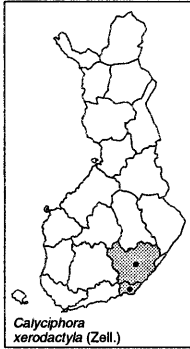
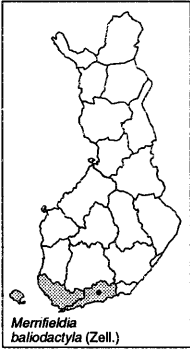
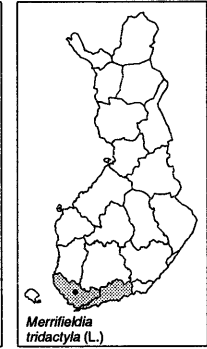
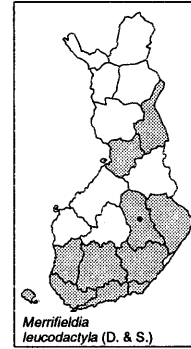
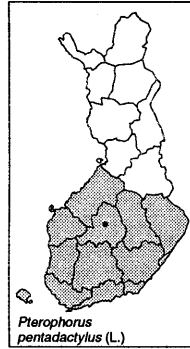
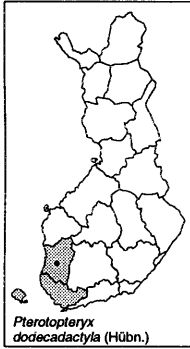
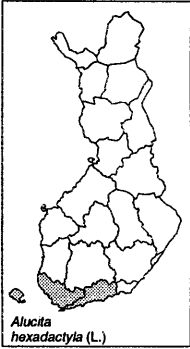


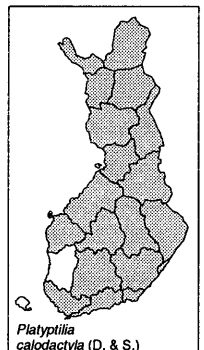
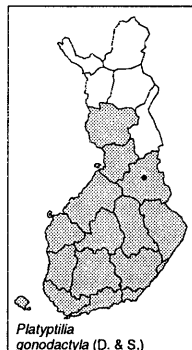
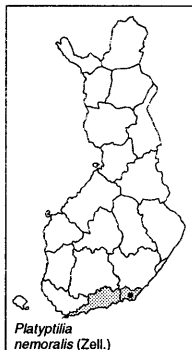
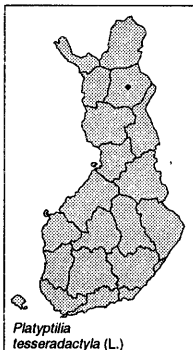
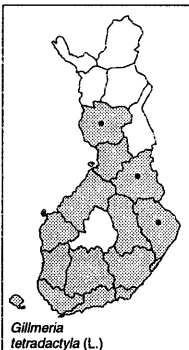
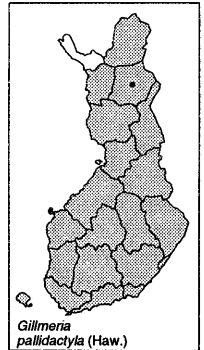
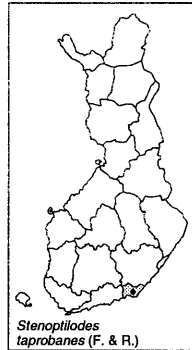
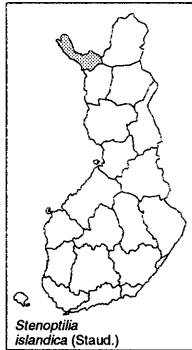
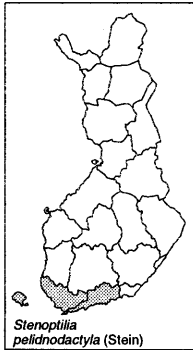
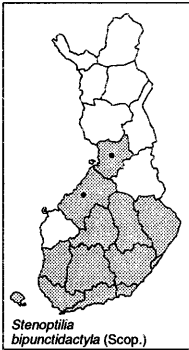
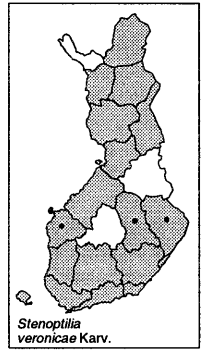
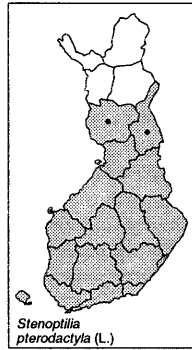
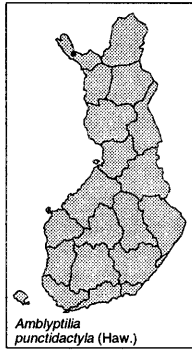
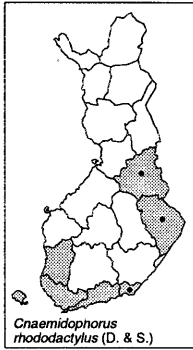
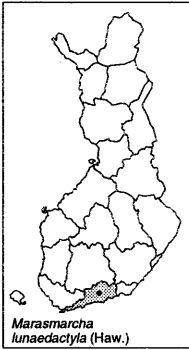
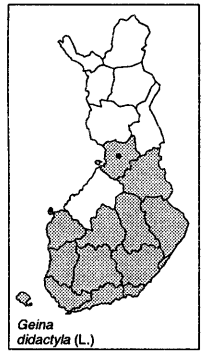
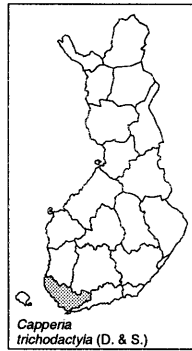
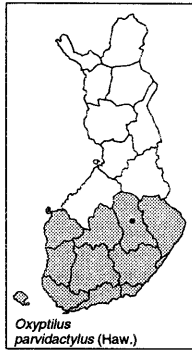
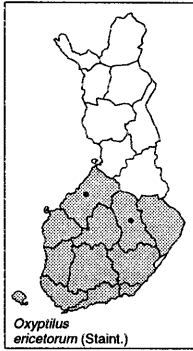
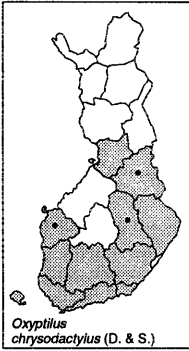


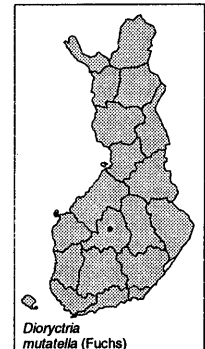
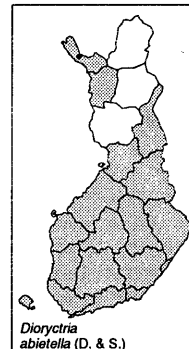
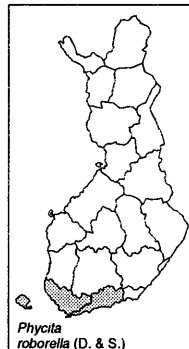
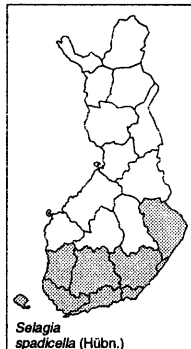
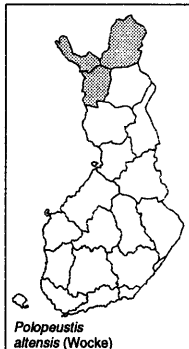
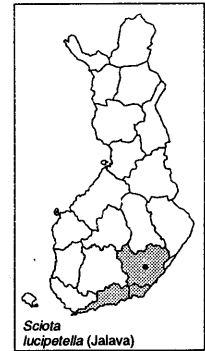
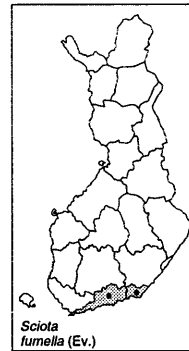
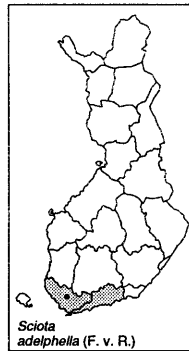
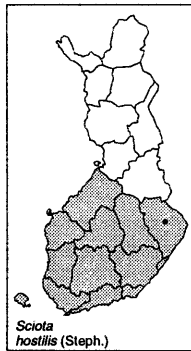
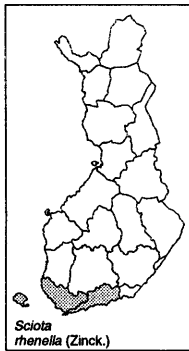
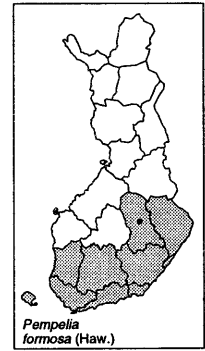
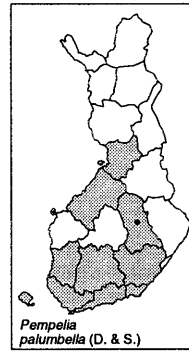
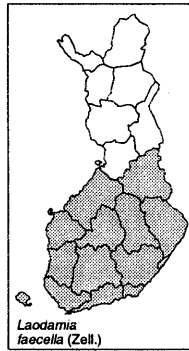
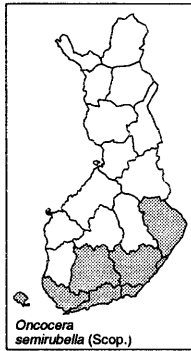
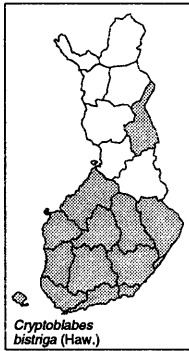
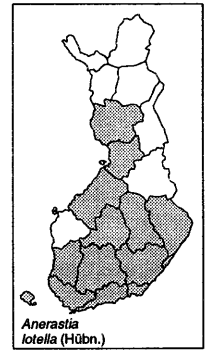
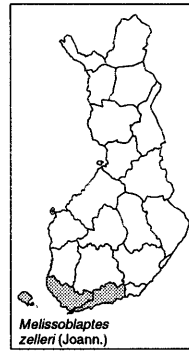
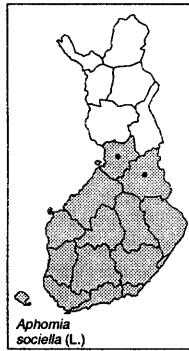
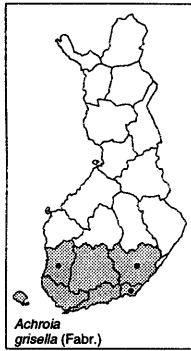
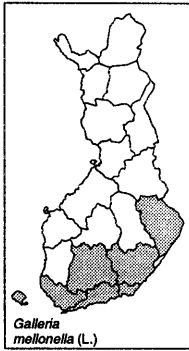


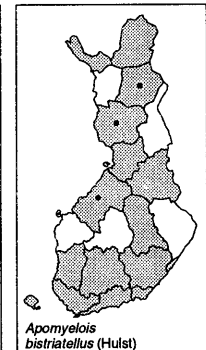
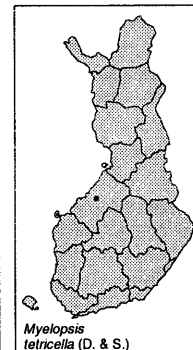
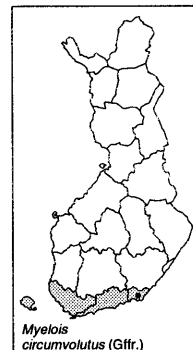
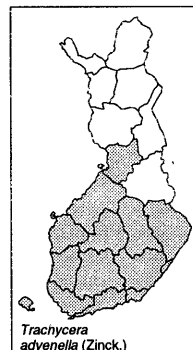
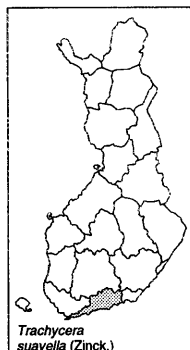
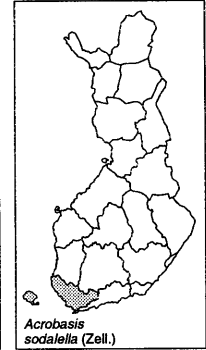
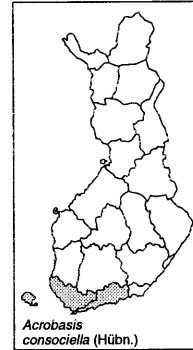
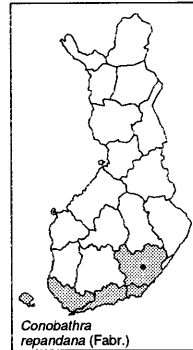
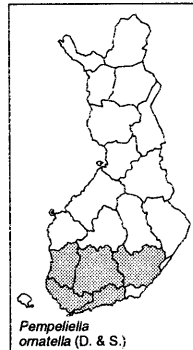
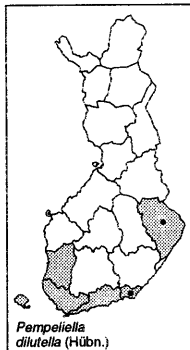
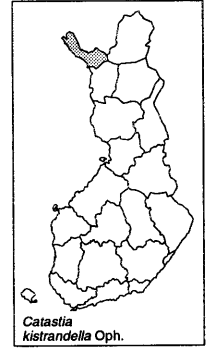
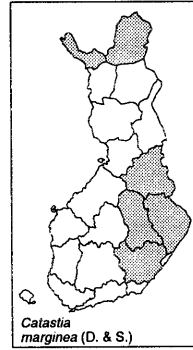
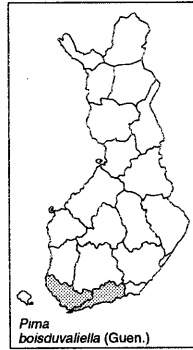
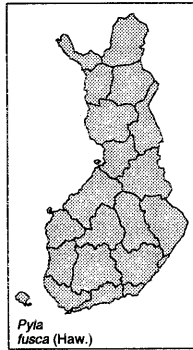
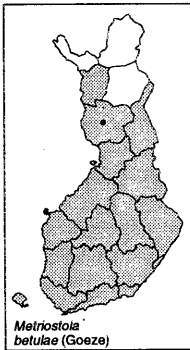
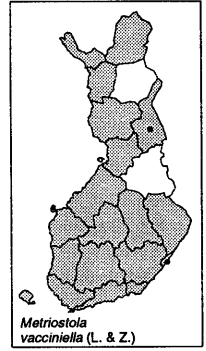
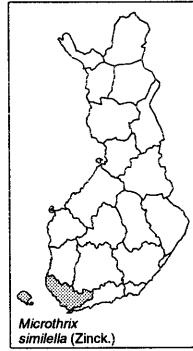
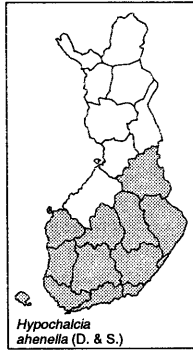
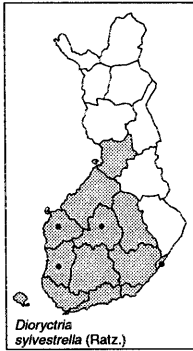
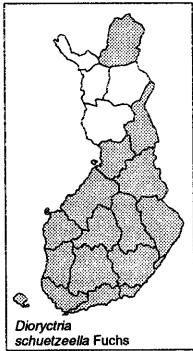


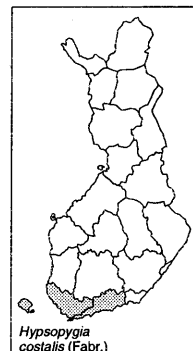
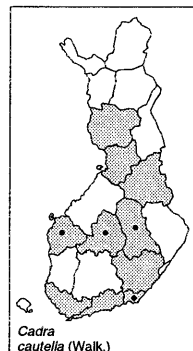
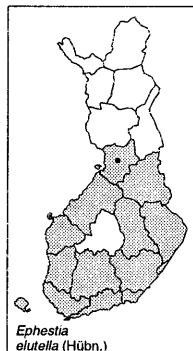
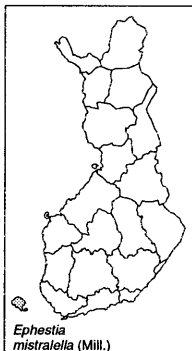
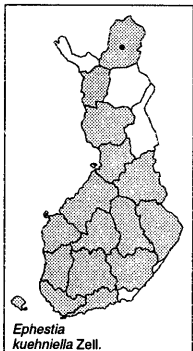
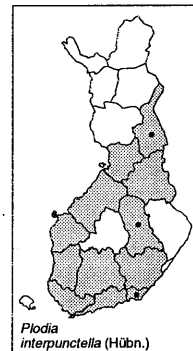
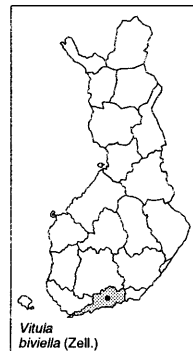
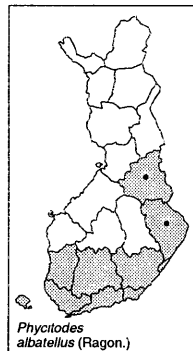
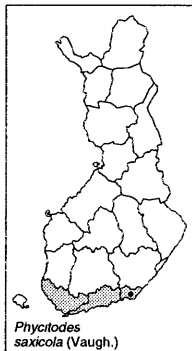
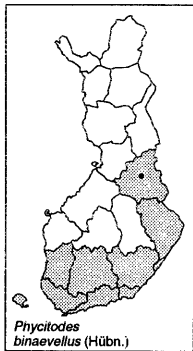
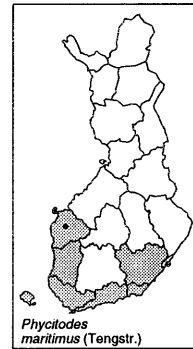
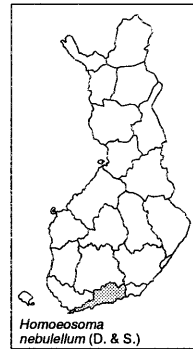
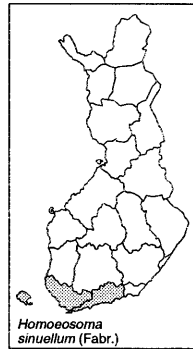
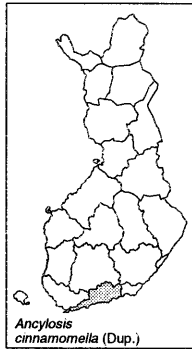
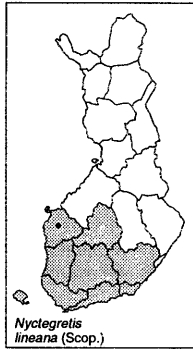
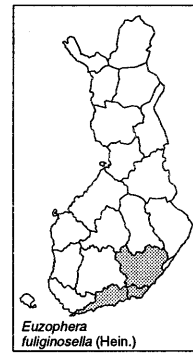
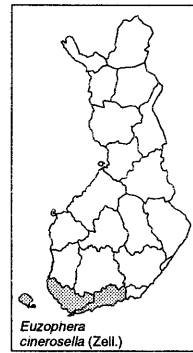
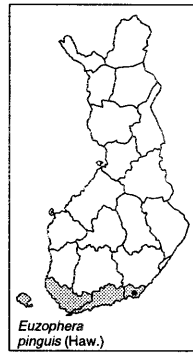
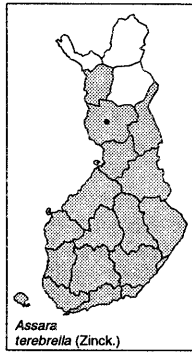
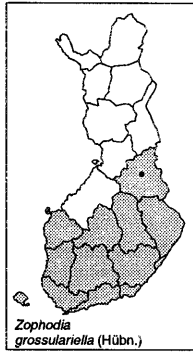


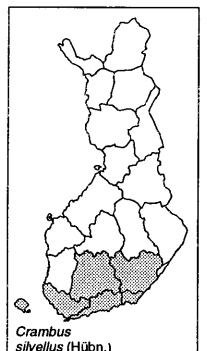
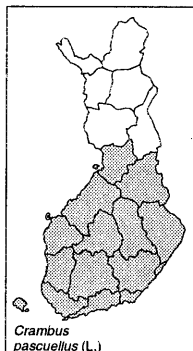
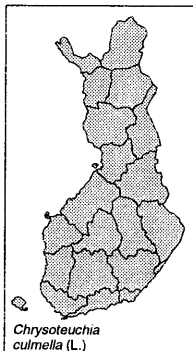
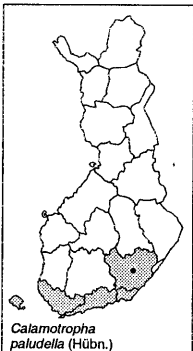
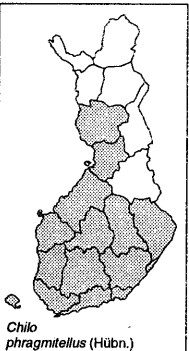
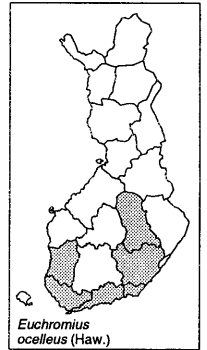
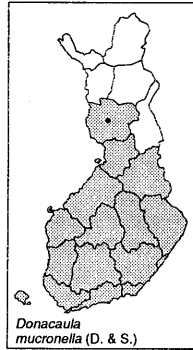
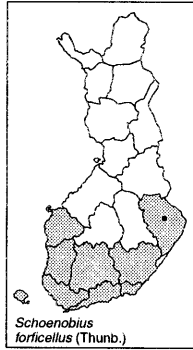
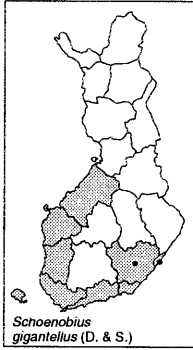
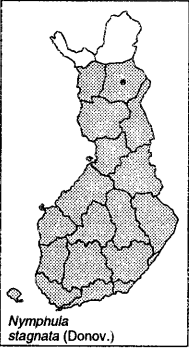
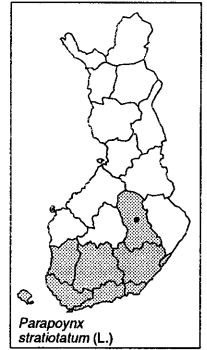
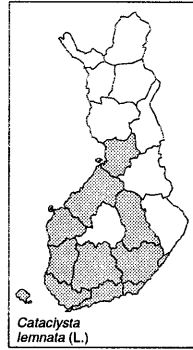
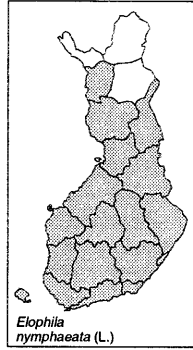
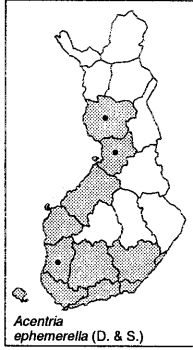
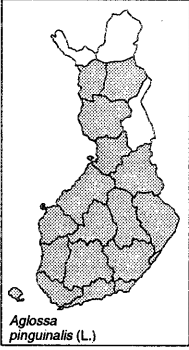
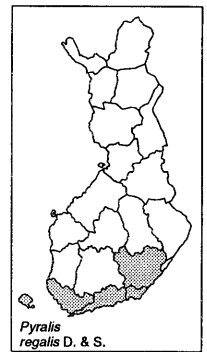
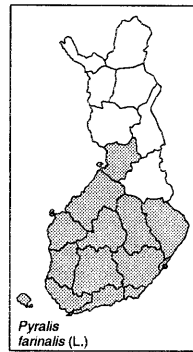
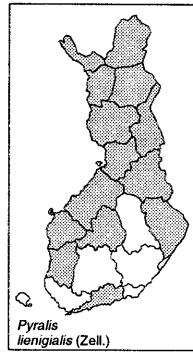
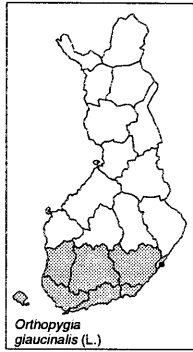
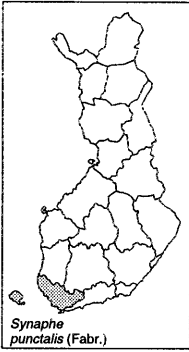




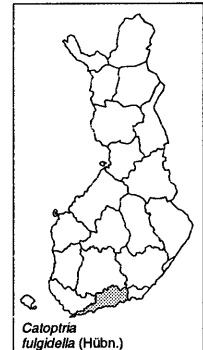
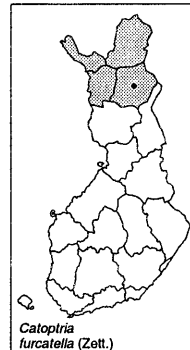
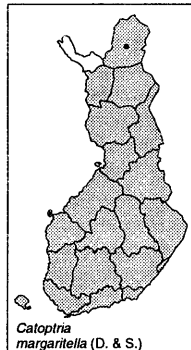
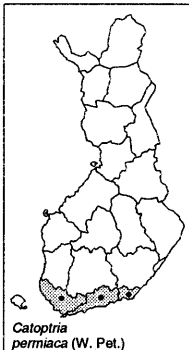
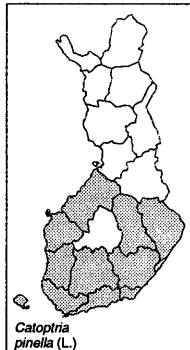
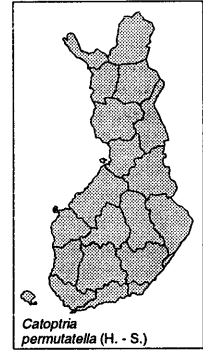
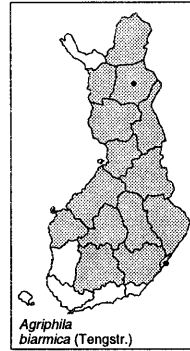
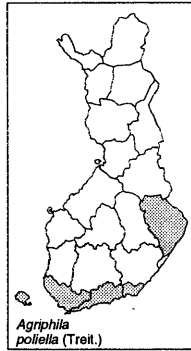
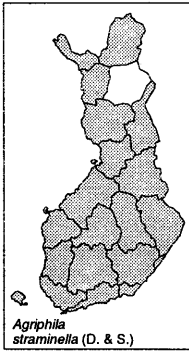
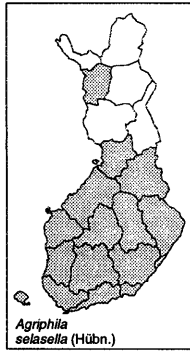
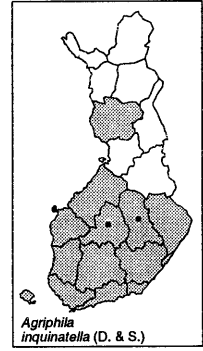
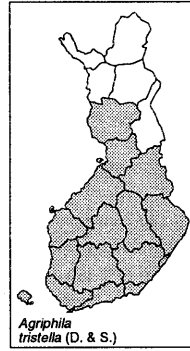
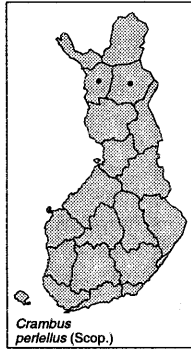
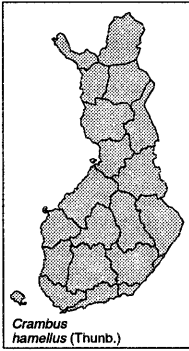
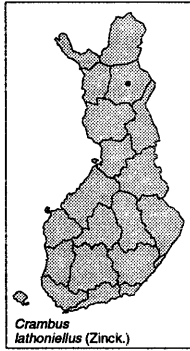
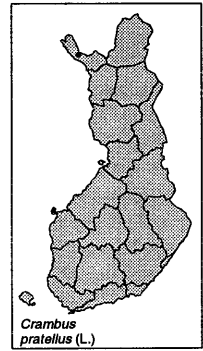
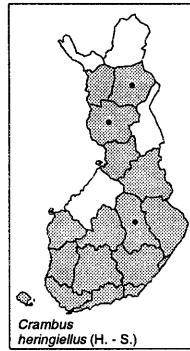
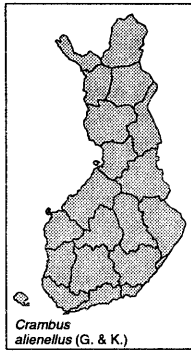
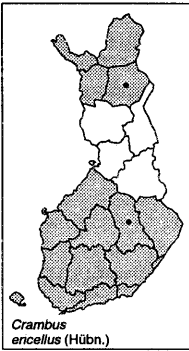
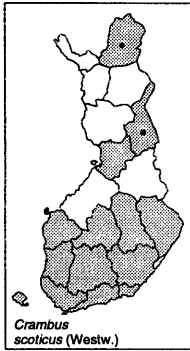


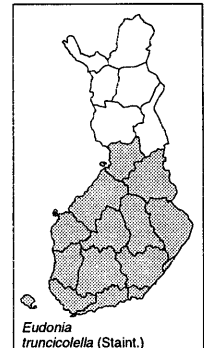
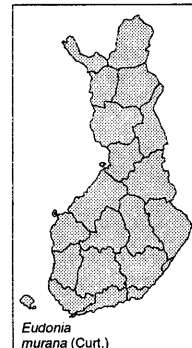
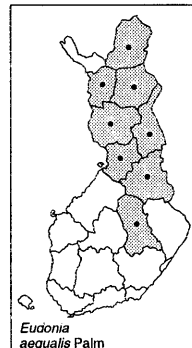
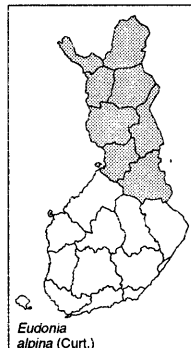
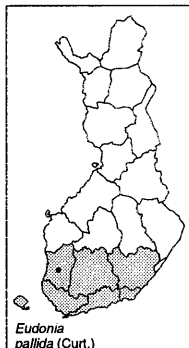
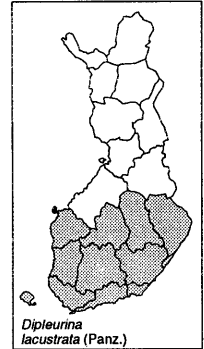
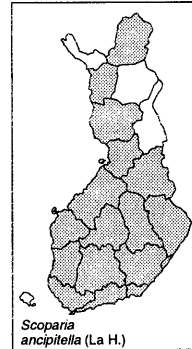
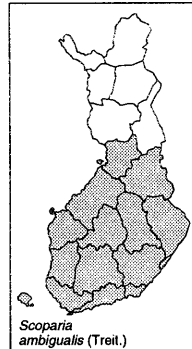
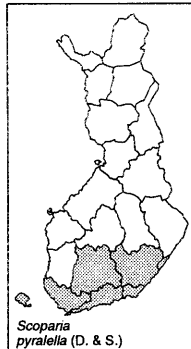
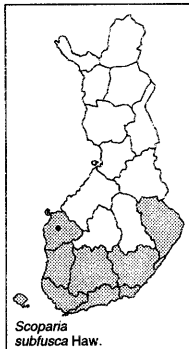
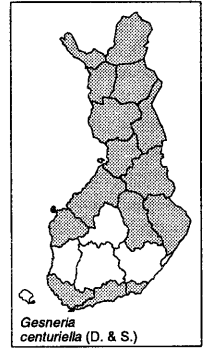
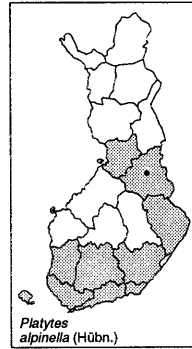
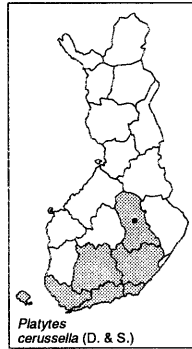
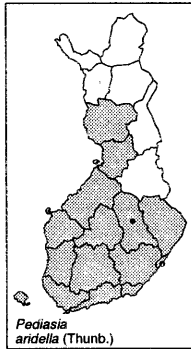
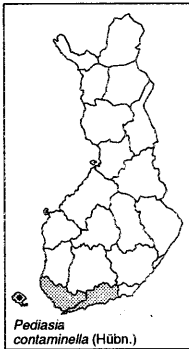
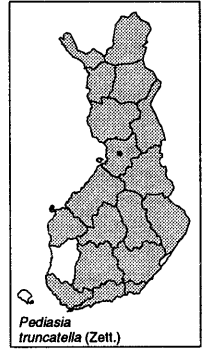
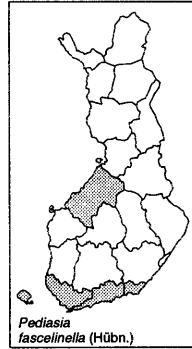
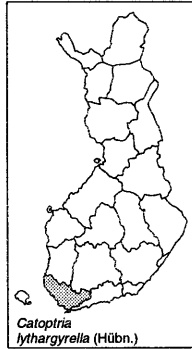
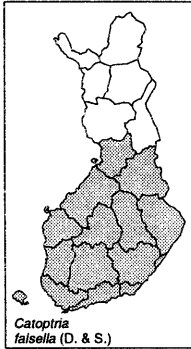
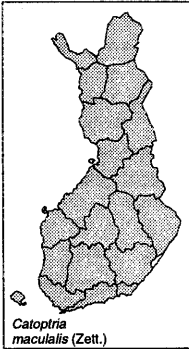


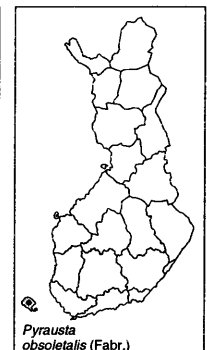
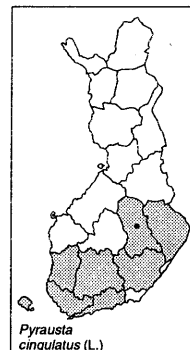
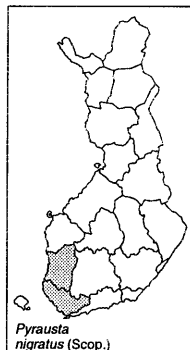
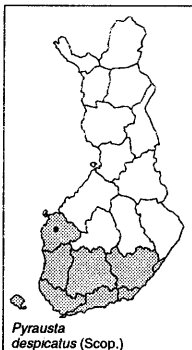
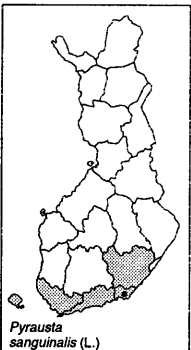
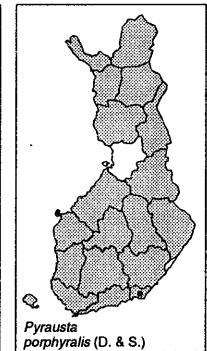
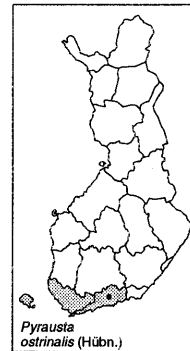
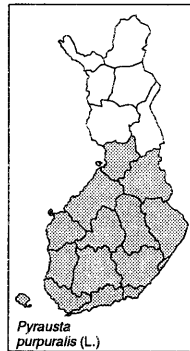
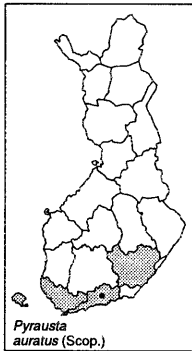
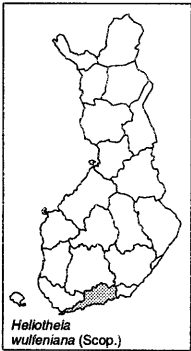
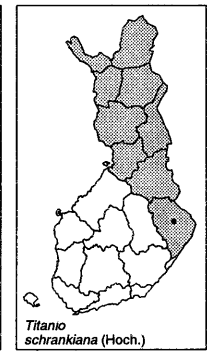
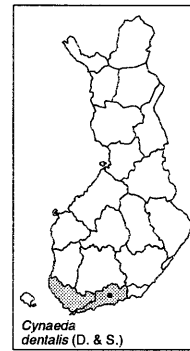
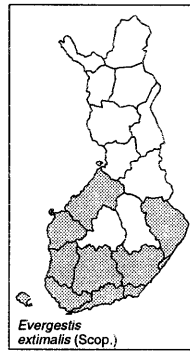
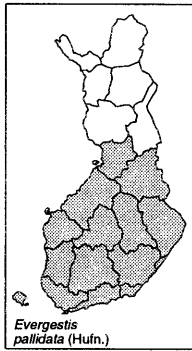
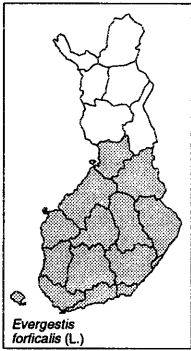
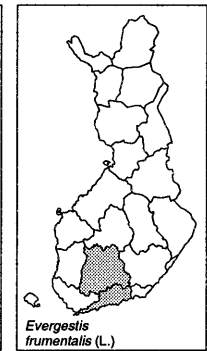
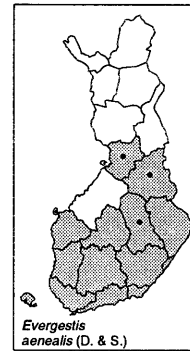
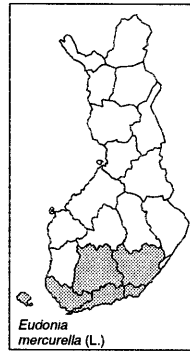
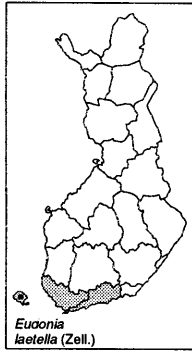
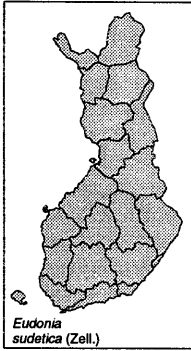


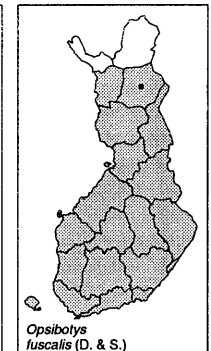
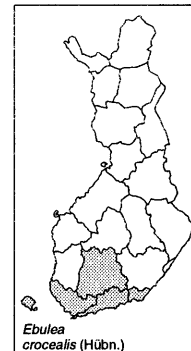
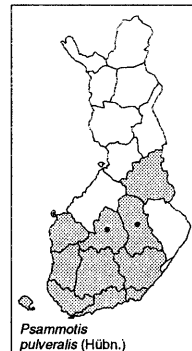
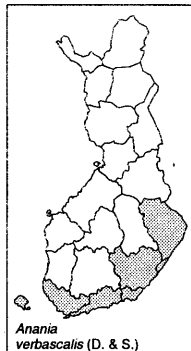
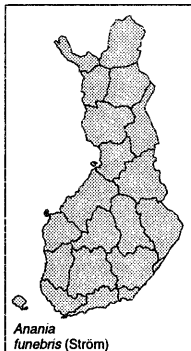
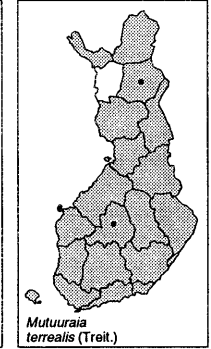
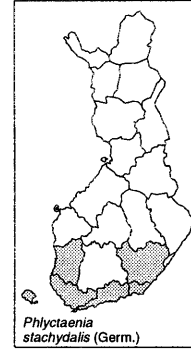
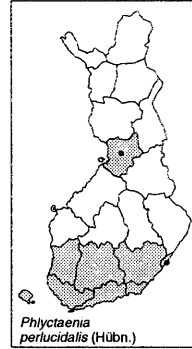
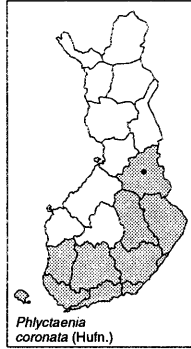
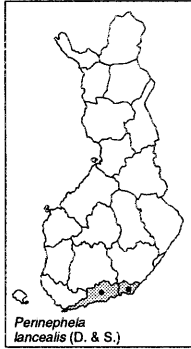
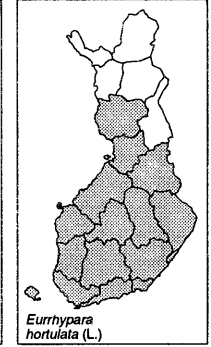
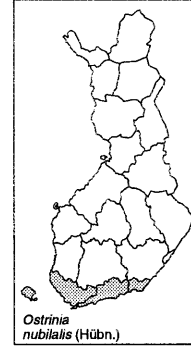
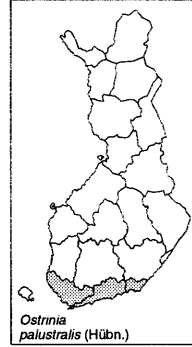
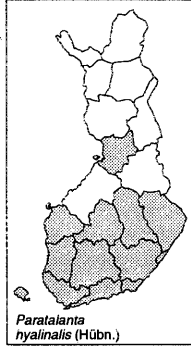
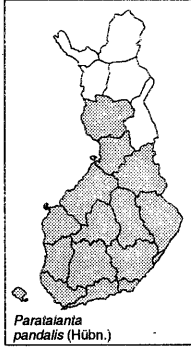
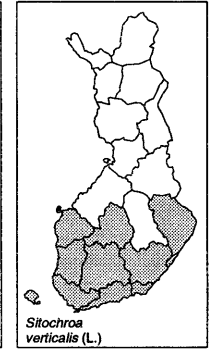
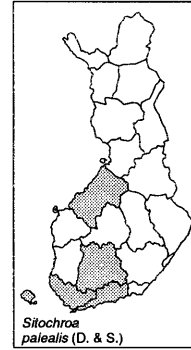
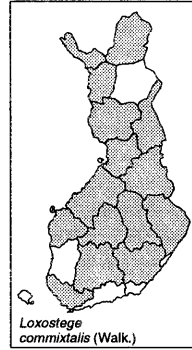
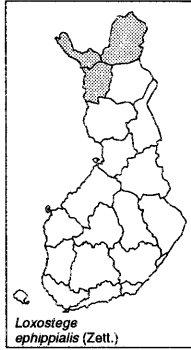
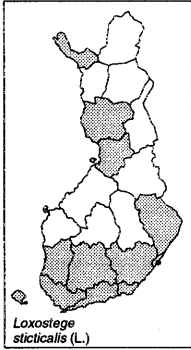


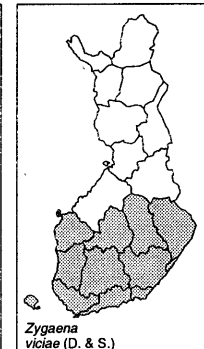
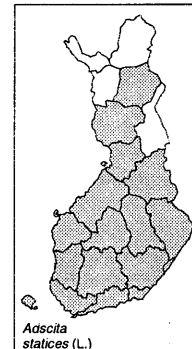
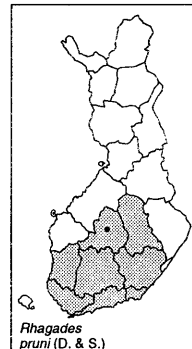
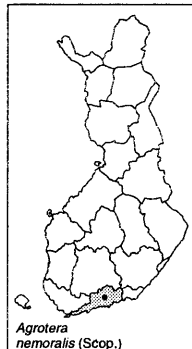
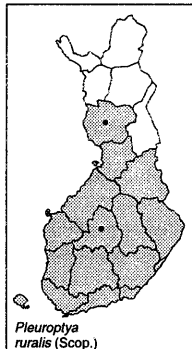
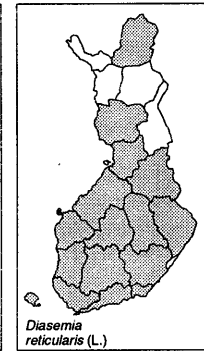
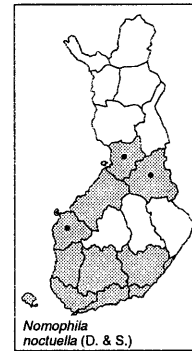
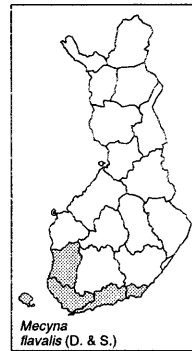
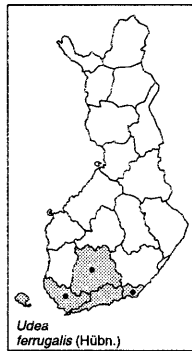
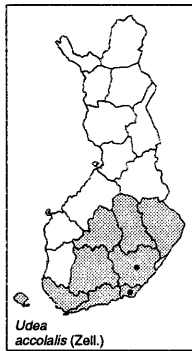
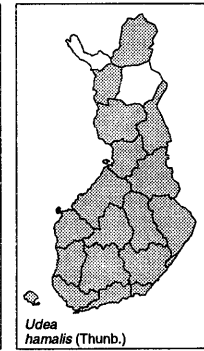
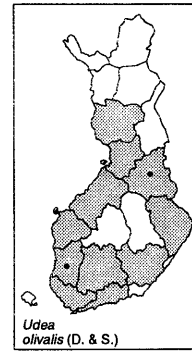
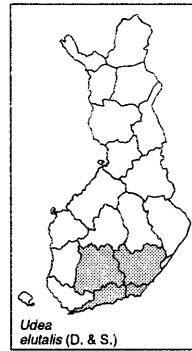
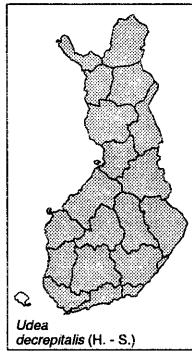
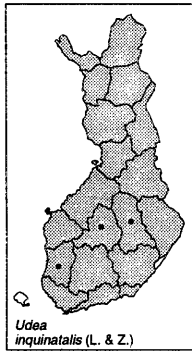
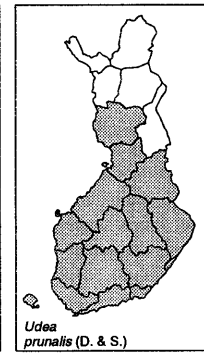
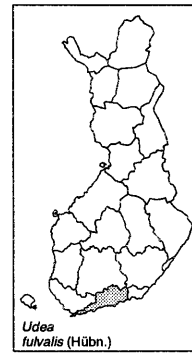
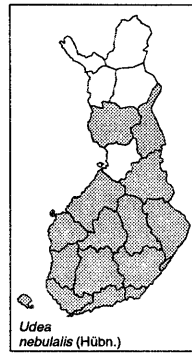
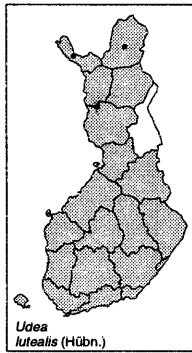
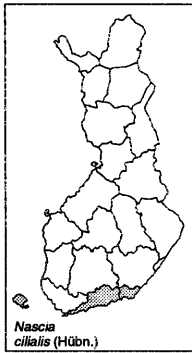


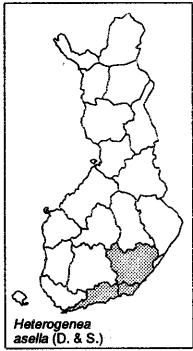
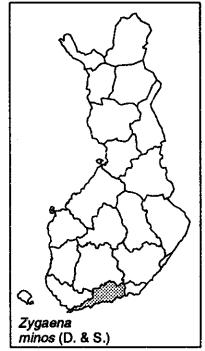
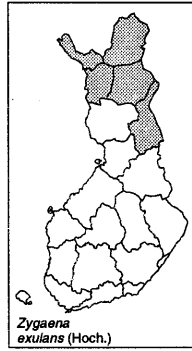
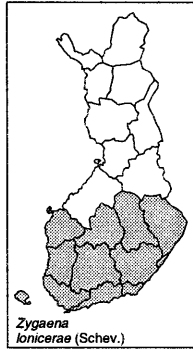
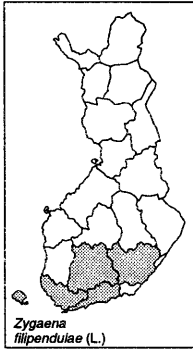
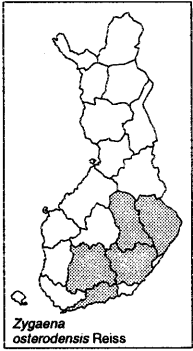








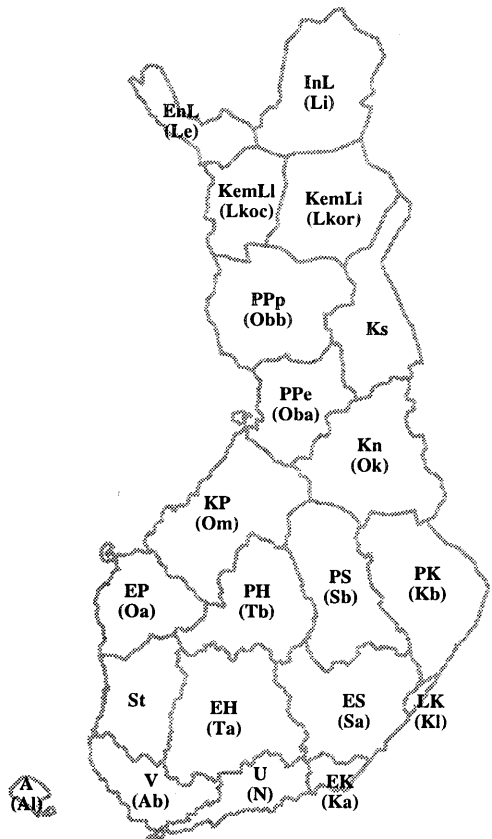




## Hakemisto

|                |    |                |    |                 |    |                |    |
|----------------|----|----------------|----|-----------------|----|----------------|----|
| Acanthopsyche  | 12 | Bedellia       | 23 | Cydia           | 62 | Galleria       | 68 |
| Acentria       | 71 | Bembecia       | 65 | Cymolomia       | 54 | Geina          | 67 |
| Achroia        | 68 | Biselachista   | 29 | Cynaeda         | 74 | Gelechia       | 40 |
| Acleris        | 48 | Bisigna        | 26 | Dahlica         | 11 | Gesneria       | 73 |
| Acompsia       | 45 | Blastesthia    | 60 | Decantha        | 26 | Gibberifera    | 58 |
| Acrobasis      | 69 | Blastobasis    | 37 | Depressaria     | 23 | Gillmeria      | 67 |
| Acrocercops    | 16 | Blastodacna    | 35 | Diasemia        | 76 | Glyphipterix   | 22 |
| Acrolepiopsis  | 22 | Borkhausenia   | 26 | Dichomeris      | 45 | Gnorimoschema  | 42 |
| Adaina         | 66 | Brachmia       | 45 | Dichrorampha    | 63 | Gracillaria    | 15 |
| Adela          | 10 | Bryotropha     | 39 | Digitivalva     | 22 | Griselda       | 58 |
| Adoxophyes     | 47 | Bucculatrix    | 18 | Dioryctria      | 69 | Gypsonoma      | 58 |
| Adscita        | 77 | Buckleria      | 67 | Dipleurina      | 73 | Haplotinea     | 12 |
| Aethes         | 50 | Cadra          | 71 | Diplodoma       | 11 | Harpella       | 26 |
| Agapeta        | 50 | Calamotropha   | 71 | Diurnea         | 27 | Hedya          | 53 |
| Aglössa        | 71 | Callisto       | 15 | Doloploca       | 48 | Heinemannia    | 35 |
| Agnathosia     | 12 | Caloptilia     | 14 | Donacaula       | 71 | Helcystogramma | 45 |
| Agonopterix    | 24 | Calybites      | 15 | Eana            | 48 | Heliothela     | 74 |
| Agriophila     | 72 | Calyciphora    | 66 | Ebulea          | 76 | Heliozela      | 9  |
| Agrotera       | 76 | Canephora      | 12 | Ectoedemia      | 8  | Hellinsia      | 66 |
| Aleimma        | 48 | Capperia       | 67 | Eidophasia      | 22 | Hepialus       | 5  |
| Alloclementia  | 10 | Capricornia    | 53 | Elachista       | 27 | Heterogenea    | 77 |
| Altenia        | 40 | Capua          | 47 | Elatobia        | 14 | Hofmannophila  | 27 |
| Alucita        | 66 | Carcina        | 26 | Elophila        | 71 | Homoeosoma     | 70 |
| Amblyptilia    | 67 | Caryocolum     | 43 | Emmelina        | 66 | Hypatima       | 44 |
| Anacamptis     | 44 | Cataclysta     | 71 | Enarmonia       | 61 | Hypatopa       | 37 |
| Anania         | 75 | Cataplectica   | 65 | Endothenia      | 55 | Hypercallia    | 26 |
| Anarsia        | 44 | Catastia       | 69 | Endrosis        | 27 | Hypochoalicia  | 69 |
| Anchinia       | 26 | Catoptria      | 72 | Epagoge         | 47 | Hypsopygia     | 71 |
| Ancylys        | 56 | Cauchas        | 10 | Epermenia       | 66 | Incurvaria     | 10 |
| Ancylosis      | 70 | Cedestis       | 20 | Ephestia        | 70 | Infurcitinea   | 12 |
| Anerastia      | 68 | Celypha        | 52 | Epiblema        | 59 | Isophrictis    | 37 |
| Anthophila     | 64 | Cheimophila    | 27 | Epinotia        | 56 | Kessleria      | 19 |
| Aphelia        | 46 | Chilo          | 71 | Eriocrania      | 5  | Klimeschia     | 18 |
| Aphomia        | 68 | Chionodes      | 41 | Eriopsela       | 59 | Klimeschiopsis | 44 |
| Aplota         | 27 | Choreutis      | 64 | Ethmia          | 25 | Lamellocossus  | 45 |
| Apodia         | 37 | Choristoneura  | 46 | Euchromius      | 71 | Lampronia      | 10 |
| Apomyeloidis   | 70 | Chrysoclista   | 35 | Eucosma         | 60 | Laodamia       | 68 |
| Apotomis       | 54 | Chrysoesthia   | 37 | Eucosmomorpha   | 61 | Lathronympha   | 61 |
| Approaerema    | 44 | Chrysoteuchia  | 72 | Eudemis         | 55 | Leucoptera     | 23 |
| Apteron        | 12 | Clepsia        | 46 | Eudonia         | 73 | Levipalpus     | 24 |
| Archinemapogon | 13 | Cnaemidophorus | 67 | Euhypnometeuta  | 19 | Limnaecia      | 36 |
| Archips        | 46 | Cnephasia      | 47 | Euhypnometoides | 19 | Lobesia        | 55 |
| Argolamprotes  | 38 | Cochylidia     | 51 | Eulamprotes     | 38 | Loxostege      | 75 |
| Argyresthia    | 20 | Cochylimorpha  | 50 | Eulia           | 47 | Lozotaenia     | 47 |
| Argyrotaenia   | 46 | Cochylis       | 51 | Eupocilia       | 50 | Lyonetia       | 23 |
| Aristotelia    | 37 | Coleophora     | 30 | Eurrhypara      | 75 | Lypusa         | 11 |
| Aroga          | 41 | Conobathra     | 69 | Euzophera       | 70 | Marasmarcha    | 67 |
| Aspilapteryx   | 15 | Cosmiotes      | 29 | Evergestis      | 74 | Mecyna         | 76 |
| Assara         | 70 | Cosmopterix    | 36 | Exaeretia       | 24 | Melissoblaptis | 68 |
| Atemelia       | 20 | Cossus         | 45 | Exapate         | 48 | Mendesia       | 27 |
| Aterpia        | 54 | Crambus        | 72 | Exoteleia       | 39 | Merrifieldia   | 66 |
| Athrips        | 42 | Croesia        | 48 | Falseuncaria    | 52 | Mesophleps     | 44 |
| Bactra         | 55 | Crombrugghia   | 67 | Filatima        | 41 | Metalampra     | 26 |
| Batrachedra    | 35 | Cryptoblabes   | 68 |                 |    | Metriostola    | 69 |

|                  |    |                   |    |               |    |             |    |
|------------------|----|-------------------|----|---------------|----|-------------|----|
| Metzneria        | 37 | Phalonidia        | 50 | Sorhagenia    | 36 | Thiodia     | 60 |
| Micropterix      | 5  | Phaulernis        | 65 | Sparganothis  | 52 | Thiotricha  | 45 |
| Microthrix       | 69 | Philedone         | 47 | Spatalistis   | 48 | Tichonia    | 26 |
| Mompha           | 35 | Philedonides      | 47 | Spilonota     | 60 | Tinagma     | 18 |
| Monochroa        | 38 | Phlyctaenia       | 75 | Stagmatophora | 36 | Tinea       | 14 |
| Monopis          | 13 | Phragmataecia     | 45 | Stathmopoda   | 27 | Tineola     | 14 |
| Montescardia     | 12 | Phycita           | 69 | Stenolechia   | 39 | Tischeria   | 11 |
| Morophaga        | 12 | Phycitodes        | 70 | Stenoptilia   | 67 | Titanio     | 74 |
| Mutuuraia        | 75 | Phyllocnistis     | 17 | Stenoptilodes | 67 | Tortrix     | 48 |
| Myelois          | 70 | Phyllonorycter    | 16 | Stenoptinea   | 12 | Trachycera  | 69 |
| Myelopsis        | 70 | Phylloporia       | 10 | Stephensia    | 27 | Trachysmia  | 50 |
| Myrmecozela      | 12 | Pima              | 69 | Sterrhopterix | 12 | Triaxomera  | 13 |
| Nascia           | 76 | Platyptilia       | 67 | Stigmella     | 6  | Trichophaga | 13 |
| Nemapogon        | 13 | Platytes          | 73 | Strophedra    | 61 | Trifurcula  | 8  |
| Nematopogon      | 9  | Platuroptya       | 76 | Swammerdamia  | 19 | Udea        | 76 |
| Nemaxera         | 13 | Pleurota          | 27 | Synanthedon   | 65 | Vitula      | 70 |
| Nemophora        | 9  | Plodia            | 70 | Synaphe       | 71 | Wockia      | 65 |
| Neofaculta       | 41 | Plutella          | 22 | Syncopacma    | 44 | Xystophora  | 37 |
| Neofriseria      | 41 | Polopeustis       | 68 | Syndemis      | 46 | Yponomeuta  | 19 |
| Niditinea        | 14 | Prays             | 20 | Taleporia     | 11 | Ypsolopha   | 21 |
| Nomophila        | 76 | Pristerognatha    | 53 | Tebenna       | 64 | Zeiraphera  | 58 |
| Nothris          | 44 | Prochoreutis      | 64 | Telechrysis   | 26 | Zophodia    | 70 |
| Nyctegretis      | 70 | Prolita           | 42 | Teleiodes     | 39 | Zygaena     | 77 |
| Nymphula         | 71 | Psammotis         | 76 | Teleiopsis    | 40 |             |    |
| Ochromolopis     | 65 | Pselnophorus      | 66 |               |    |             |    |
| Ochsenheimeria   | 22 | Pseudargyrotoza   | 47 |               |    |             |    |
| Ocnerostoma      | 20 | Pseudatemelia     | 25 |               |    |             |    |
| Oecophora        | 26 | Pseudohermenias   | 53 |               |    |             |    |
| Oegoconia        | 37 | Pseudosciaphila   | 54 |               |    |             |    |
| Oidaematophorus  | 66 | Pseudotelphusa    | 40 |               |    |             |    |
| Olethreutes      | 52 | Psoricoptera      | 41 |               |    |             |    |
| Olindia          | 47 | Psyche            | 11 |               |    |             |    |
| Oncocera         | 68 | Pterophorus       | 66 |               |    |             |    |
| Opostega         | 5  | Pterotopteryx     | 66 |               |    |             |    |
| Opsibotys        | 76 | Ptycholoma        | 47 |               |    |             |    |
| Orophia          | 26 | Pyla              | 69 |               |    |             |    |
| Orthopygia       | 71 | Pyralis           | 71 |               |    |             |    |
| Orthotaelia      | 22 | Pyrausta          | 74 |               |    |             |    |
| Orthotaenia      | 54 | Recurvaria        | 39 |               |    |             |    |
| Ostrinia         | 75 | Retinia           | 61 |               |    |             |    |
| Oxyptilus        | 67 | Rhagades          | 77 |               |    |             |    |
| Pachytelia       | 12 | Rhigognostis      | 22 |               |    |             |    |
| Pammene          | 61 | Rhopobota         | 58 |               |    |             |    |
| Pancalia         | 36 | Rhyacionia        | 61 |               |    |             |    |
| Pandemis         | 45 | Roeslerstammia    | 18 |               |    |             |    |
| Parachronistis   | 39 | Scardia           | 12 |               |    |             |    |
| Paramesia        | 47 | Schiffermuelleria | 26 |               |    |             |    |
| Paranthrene      | 65 | Schoenobius       | 71 |               |    |             |    |
| Parapoynx        | 71 | Schreckensteinia  | 65 |               |    |             |    |
| Paraswammerdamia | 19 | Sciota            | 68 |               |    |             |    |
| Paratalanta      | 75 | Scoparia          | 73 |               |    |             |    |
| Parectopa        | 15 | Scrobipalpa       | 42 |               |    |             |    |
| Parornix         | 15 | Scrobipalpopsis   | 43 |               |    |             |    |
| Pediasia         | 73 | Scrobipalpa       | 43 |               |    |             |    |
| Pelochrista      | 59 | Scythris          | 36 |               |    |             |    |
| Pempelia         | 68 | Scythropia        | 19 |               |    |             |    |
| Pempeliella      | 69 | Selagia           | 68 |               |    |             |    |
| Pennisetia       | 65 | Selenodes         | 61 |               |    |             |    |
| Perinephela      | 75 | Semioscopis       | 23 |               |    |             |    |
| Perittia         | 27 | Sesia             | 65 |               |    |             |    |
| Pexicopia        | 45 | Siederia          | 11 |               |    |             |    |
| Phalacropterix   | 12 | Sitochroa         | 75 |               |    |             |    |
|                  |    | Sophonria         | 44 |               |    |             |    |



Kuva 1. Suomen luonnontieteelliset maakunnat.



