

## Diptera - two-winged flies

A huge assemblage of flies, some with aquatic, some with terrestrial larvae. Many families poorly recorded in Fife, others better, but most biased towards a few coastal sites. Names follow Chandler, P. 1998: *Handbook for the identification of British Insects, vol. 12, Checklist of insects of the British Isles, part 1, Diptera*, unless shown otherwise under the family heading.

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### Tipulidae – craneflies

Mostly large flies ("daddy-long-legs") with larvae in soil (leather-jackets), mud, or rotting wood; probably many more species present. The commonest one in gardens and pasture is *Tipula paludosa*.

- Dolichopeza albipes* (Ström): Tentsmuir.  
*Nephrotoma appendiculata* (Pierre): Newburn, Tentsmuir.  
*Nephrotoma flavescens* (L.): Aberdour, I of May, Newburn, some as *Pachyrrhina histrio*.  
*Nephrotoma quadrifarea* (Meigen): Widespread, woods and gardens.  
*Nephrotoma scurra* (Meigen): Dumbarrie Links.  
*Nephrotoma submaculosa* Edwards: Coastal.  
*Prionocera turcica* (Fabricius): Wetlands.  
*Tipula confusa* van der Wulp: Widespread, formerly *T.marmorata* [larvae in moss].  
*Tipula couckeii* Tonnoir: Wetlands.  
*Tipula fascipennis* Meigen: Woodland.  
*Tipula fulvipennis* De Geer: Tentsmuir.  
*Tipula lateralis* Meigen: Dumbarrie Links, Mountcastle Quarry.  
*Tipula luteipennis* Meigen: Barnyards Marsh.  
*Tipula lunata* L.: Woodland.  
*Tipula maxima* Poda: Wetlands.  
*Tipula melanoceros* Schummel: Dumbarrie Links.  
*Tipula obsoleta* Meigen: Dumbarrie Links; doubtful records also from I of May and Inchkeith.  
*Tipula oleracea* L.: Widespread.  
*Tipula pagana* Meigen: Dumbarrie Links.  
*Tipula paludosa* Meigen: Widespread, pastures and lawns, an agricultural pest.  
*Tipula pierreii* Tonnoir: Newburgh, as *T.solstitialis*.  
*Tipula rufina* Meigen: Bankhead Moss; and Inchkeith, 1914.  
*Tipula scripta* Meigen: Widespread in woodland.  
*Tipula staegeri* Nielsen: Dumbarrie Links, Newburn.  
*Tipula subcunctans* Alexander: Dumbarrie Links.  
*Tipula unca* Wiedemann: Wet woodlands.  
*Tipula variicornis* Schummel: Tentsmuir.  
*Tipula varipennis* Meigen: Dumbarrie Links, Kinghorn.  
*Tipula vernalis* Meigen: Grassland.  
*Tipula vittata* Meigen: Wetlands.

### Pediciidae

- Pedicia rivosa* (L.): Bankhead Moss, Fleecefaulds.  
*Tricyphona immaculata* (Meigen): Dumbarrie Links.

### Limoniidae

- Cheilotrichia cinerascens* (Meigen): Kinghorn, pre-1896.  
*Dicranomyia chorea* (Meigen): Widespread.  
*Dicranomyia mitis* (Meigen) (s.l.): I of May, Lundin Links, as *Limonia mitis*.  
*Euphyllidorea lineola* Meigen: Dumbarrie Links.  
*Euphyllidorea phaeostigma* (Schummel): Bankhead Moss.  
*Limonia nubeculosa* Meigen: Widespread.  
*Limonia phragmitidis* (Schränk): Dumbarrie Links, = *L.tripunctata*.  
*Neolimnomyia filata* (Walker): Aberdour, pre-1904.  
*Ormosia hederæ* (Curtis): Lundin Links.  
*Phyllidorea ferruginea* (Meigen): I of May, as *Limnophila ferruginea*.

*Phylidorea fulvonervosa* (Schummel): Lomonds.  
*Rhipidia maculata* Meigen: Bankhead Moss, Dumbarnie Links.  
*Rhypholophus haemorrhoidalis* (Zetterstedt): Wet woodland (= *Ormosia haemorrhoidalis*).  
*Trimicra pilipes* (Fabricius): Dumbarnie Links.

### **Bibionidae**

Black hairy flies with larvae in leaf-litter and soil.

*Bibio clavipes* Meigen: Dumbarnie Links.  
*Bibio ferruginatus* (L.): Dumbarnie Links, Newburn.  
*Bibio hybridus* Haliday: Tentsmuir.  
*Bibio johannis* (L.): Dumbarnie Links, Lundin Links.  
*Bibio lanigerus* Meigen: Lundin Links, St Andrews, Tentsmuir.  
*Bibio lepidus* Loew: Widespread.  
*Bibio leucopterus* (Meigen): Keils Den, Dumbarnie Links, Torry Bay.  
*Bibio marci* (L.): St Mark's fly; Widespread.  
*Bibio nigriventris* Haliday: Aberdour, Kinghorn, Strathmiglo.  
*Bibio pomonae* (Fabricius): Leven, Oakley, St Andrews.  
*Bibio varipes* Meigen: Lundin Links.  
*Dilophus febrilis* (L.): Widespread, at least on coast.  
*Dilophus femoratus* Meigen: Dumbarnie Links.

### **Bolitophilidae**

*Bolitophilus maculipennis* Walker: Lundin Links.

### **Keroplastidae**

*Orfelia nemoralis* (Meigen): Kinghorn, pre-1896.

### **Mycetophilidae - fungus-gnats**

Larvae mostly in fungi.

[*Allodia silvatica* (Landrock): Carriston Res., needs confirmation.]  
*Brevicornu boreale* (Lundström): Kinghorn, pre-1896.  
*Mycetophila ichneumonea* Say: St Andrews.  
*Mycetophila ocellus* Walker: St Andrews.  
*Mycetophila ornata* Stephens: Aberdour, as *M. rufescens*.  
*Tarnaria fenestralis* (Meigen): St Andrews.

### **Sciaridae**

Small gnat-like flies with larvae in humus-rich soil, fungi etc.

*Bradysia alpicola* (Winnertz): Dumbarnie Links.  
*Bradysia bicolor* (Meigen): Saline, pre-1904, as *Sciara rufiventris*.  
*Bradysia praecox* (Meigen): Dumbarnie Links.  
*Lycoriella castanescens* (Lengersdorf): Dumbarnie Links.  
*Schwenckfeldina carbonaria* (Meigen): Dumbarnie Links.  
*Sciara hemerobioides* (Scopoli): Barnyards Marsh, Kellie Castle.  
*Trichosia trochanterata* (Zetterstedt): Kinkell Braes; as *T. coarctata*.

### **Cecidomyiidae - gall-midges**

Small flies, most with larvae forming galls in plants; identified from galls unless otherwise stated. Early records by Trail (1890): *Scot. Nat.* 4: 226-232; Grimshaw (1903): *Ann. Scot. nat. Hist.* 1903: 154-166; and Bagnall & Harrison (1932): *Scot. Nat.* 1932: 77-88, 109-121 (B&H in list below). Other records are since 1990.

*Ametrodiplosis thalictricola* (Rübsaamen): 'Fife', on fruits of meadow-rue, *Thalictrum minus*, Trail, quoted B&H.  
*Anisostephus betulinus* (Kieffer): Bankhead Moss, Glenduckie Hill, on leaves of birch.  
*Aphidoletes urticae* (Kieffer): St Andrews, predator on aphids, as *Phoenobremia macrorosae*; B&H.  
*Asphondylia melanopus* Kieffer: Tentsmuir, on seed-pods of bird's-foot trefoil, *Lotus corniculatus*; B&H.  
*Asphondylia ononidis* Löw: Burntisland, Kinghorn, on restharrow, *Ononis repens*, 1931, B&H; and at Dumbarnie Links.

*Asphondylia sarothamni* (Loew): Widespread, on seed-pods of broom, *Cytisus scoparius*.  
*Asphondylia ulicis* Trail: On gorse.  
[*Bremiella onobrychidis* (Bremi): Dumbarnie Links; Kincaig (Trail); on leaflets of purple milk-vetch, *Astragalus danicus*; probably an undescribed species.]  
[*Clinodiplosis botularia* (Winnertz): Elie, on ash, Trail, as *Diplosis botularia*; error -- see *Dasyneura fraxini*.]  
*Contarinia barbichi* (Kieffer): Fleecefaulds Meadow, on terminal leaves of birds'-foot trefoil, *Lotus corniculatus*.  
[*Contarinia gei* Kieffer: Kinghorn, on flowers of wood avens, *Geum urbanum*, 1930, B&H; probably an error.]  
*Contarinia helianthemii* (Hardy): Burntisland, Kinghorn, on leaves of rockrose, *Helianthemum*, B&H.  
*Contarinia jacobaea* (Loew): Widespread, on flower-heads of ragwort, *Senecio jacobaea*.  
*Contarinia loti* (DeGeer): Elie, Tentsmuir, on flowers of bird's-foot trefoil, *Lotus corniculatus*, B&H, Trail.  
*Contarinia nicolayi* (Rübsaamen): Kinghorn, on flower-heads of hogweed, *Heracleum sphondylium*, B&H.  
*Contarinia ononidis* Kieffer: S coast, on restharrow, *Ononis repens*, 1992 and B&H.  
*Contarinia steini* (Karsch): Widespread, in flower-heads of red and white campion, *Silene* spp.  
*Contarinia tiliarum* (Kieffer): Bankhead Moss, Ladybank, on leaf-stalks of lime.  
*Cystiphora sanguinea* Kieffer: Kinghorn, pustules on leaves of *Pilosella officinarum*, B&H; = *C.pilosellae*.  
*Cystiphora sonchi* (Bremi): Dumbarnie Links, on leaves of sow-thistles, *Sonchus*.  
*Dasyneura affinis* (Kieffer): Tentsmuir, Torry Bay, on leaves of *Viola* sp, B&H.  
*Dasyneura aparines* (Kieffer): Dumbarnie Links, Kilminning Coast Reserve, on *Galium aparine*.  
*Dasyneura cardaminis* (Winnerz): Tayport, B&H, no host given, usually on *Cardamine* spp.  
*Dasyneura crataegi* (Winnerz): Widespread; on terminal twigs of hawthorn.  
*Dasyneura engstfeldi* (Rübsaamen): Dumbarnie Links, on leaves of meadow-sweet, *Filipendula ulmaria*.  
*Dasyneura epilobii* (Löw): Kinghorn, 1930 (B&H); flower galls on rose-bay willow-herb, *Chamerion angustifolium*; as *Perrisia epilobii*.  
*Dasyneura fraxinea* Kieffer: Newburn; on leaves of ash.  
*Dasyneura fraxini* (Bremi): Newburn; and Elie, St Andrews (Trail, galls wrongly attributed to *Diplosis botularia*, = *Clinodiplosis botularia*); on leaves of ash.  
*Dasyneura galiicola* (Löw): Widespread; bunched leaves on lady's bedstraw, *Galium verum*.  
*Dasyneura glechomae* (Kieffer): Kincaig, 1998; galls on terminal leaves and flowers of ground ivy, *Glechoma hederacea*; northernmost record.  
*Dasyneura kiefferiana* (Rübsaamen): Lomonds; and Kinghorn, B&H; rolled leaves on rose-bay willow-herb, *Chamerion angustifolium*.  
[*Dasyneura loewiana* Rübsaamen: Kinghorn, B&H; on *Vicia sepium*; probably erroneous.]  
*Dasyneura pustulans* (Rübsaamen): Widespread; on leaves of meadow-sweet, *Filipendula ulmaria*.  
*Dasyneura rosae* (Bremi): Widespread; on leaves of wild rose; as *Wachtliella rosarum*.  
*Dasyneura rossi* Rübsaamen: Dumbarnie Links, on leaves of purple milk-vetch, *Astragalus danicus*.  
*Dasyneura trifolii* (Löw): Dumbarnie Links, Newburn, Torry Bay; on leaves of clover.  
*Dasyneura tubicola* (Kieffer): Ladybank, on buds of broom, *Cytisus scoparius*.  
*Dasyneura ulicis* (Kieffer): Tayport, 1931 (B&H); on buds of whin, *Ulex europaeus*.  
*Dasyneura ulmaria* (Kieffer): Widespread; on leaves of *Filipendula ulmaria*.  
*Dasyneura urticae* (Perris): Widespread; on leaves of nettle, *Urtica dioica*.  
[*Dasyneura viciae* (Kieffer): Moss Morran, 2001; and 'all parts of Fife' (Trail,); on tufted vetch, *Vicia cracca*; probably erroneous].  
*Geocrypta galii* (Loew): Widespread; on stems of cleavers, *Galium aparine*.  
*Geocrypta rostriformis* Fedotova: Dumbarnie Links, on *Galium verum*.  
*Hartigiola annulipes* (Hartig): Widespread; on leaves of beech; including *Phegobia tornatella*, *Oligotrophus fagineus*.  
*Iteomyia capreae* (Winnerz): Lindores, Magus Muir; and Kirkcaldy (B&H); on leaves of goat willow, *Salix caprea*.  
*Jaapiella dittrichi* (Rübsaamen): Kirkcaldy, B&H; on leaves of pepper-saxifrage, *Silaum silaus*, as *Silaus pratensis*.  
*Jaapiella hedickei* Rübsaamen: Kinghorn, 1930 (B&H, as *Perrisia hedickei*); on leaves of burnet-saxifrage, *Pimpinella saxifraga*.  
*Jaapiella veronicae* (Vallot): Widespread; on terminal shoots of germander speedwell, *Veronica chamaedrys*.  
*Janetiella thymi* (Kieffer): Tayport (B&H, 1932); on inflorescence of thyme.  
*Kiefferia pericarpicola* (Bremi): Kincaig (Trail, as *Asphondylia pimpinellae*); on fruits of burnet-saxifrage, *Pimpinella saxifraga*.  
*Macrodiplosis dryobia* (Löw): Widespread; on leaves of oak.  
*Macrodiplosis volvens* Kieffer: Lindores; on oak.  
*Macrolabis heraclei* (Kaltenbach): On leaves of hogweed, *Heracleum sphondylium*, Trail, as *Cecidomyia corrugans*.  
*Macrolabis hieracii* (Rübsaamen): Kirkcaldy, 1930 (B&H); on leaves of hawkweed, *Hieracium*.  
*Massalongia rubra* (Kieffer): Keils Den, Glenduckie Hill; on leaves of downy birch, *Betula pubescens*.  
*Mikiola fagi* (Hartig): Lindores, on leaves of beech; apparently only Scottish record.  
*Oligotrophus fagineus*: Keils Den; on leaves of beech [by some considered a stage of *Hartigiola annulipes*].

*Rhabdophaga clausilia* (Bremi): Guardbridge (B&H, as *Perrisia inchbaldiana*); on leaf-margins of white willow, *Salix alba*.  
*Rhabdophaga marginemtorquens* (Bremi): Barnyards, Cullaloe, Torry Bay; on leaves of osier, *Salix viminalis*.  
*Rhabdophaga pulvini* (Kieffer): Tayport, 1930 (B&H), as *R.rosariella*; on leaves of *Salix repens*.  
*Rhopalomyia ptarmicae* (Vallot): Near Lassodie; on flower-heads of sneezewort, *Achillea ptarmica*.  
*Rondaniola bursaria* (Bremi): Newburn; 'lighthouse galls' on leaves of ground ivy, *Glechoma hederacea*.  
[*Trotteria obtusa* (Loew): 'Fife', on broom (B&H), as *T.sarothamni*; *T.obtusa* is an inquiline.]  
*Wachtliella persicariae* (L.): St Andrews, Kilconquhar etc.; on leaves of amphibious bistort, *Persicaria amphibia*.

### **Psychodidae - moth-flies (owl-midges)**

Larvae in decaying matter.

*Pericoma mutua* Eaton: 'Fife'.  
*Pericoma trivialis* Eaton: 'Fife'.  
*Philosepodon humeralis* (Meigen): Dumbarrie Links; in dead snails.  
*Psychoda phalaenoides* (L.): Dumbarrie Links, in cowdung.

### **Trichoceridae - winter gnats**

*Trichocera hiemalis* (De Geer): Dumbarrie Links, 1 of May.  
*Trichocera regelationis* (L.): Widespread, forming dancing swarms in winter.  
*Trichocera saltator* (Harris): Dumbarrie Links, St Andrews.

### **Anisopodidae**

*Sylvicola cinctus* (Fabricius): Lundin Links.  
*Sylvicola fenestralis* (Scopoli): Newburn, St Andrews.  
*Sylvicola punctatus* (Fabricius): Dumbarrie Links.

### **Scatopsidae**

Larvae in dung etc.

*Anapausis dalmatina* Duda: Aberdour (pre-1904), Kinghorn (pre-1896).  
*Reichertella geniculata* (Zetterstedt): 1 of May (1958), as *Scatopse geniculata*.  
*Scatopse notata* (L.): Lundin Links, Newburn.

### **Ptychopteridae**

Small flies resembling craneflies, with aquatic larvae. Most records from the atlas by Stubbs (1993): *Provisional atlas of the ptychopterid craneflies ... of Britain and Ireland*. Biological Records Centre, Huntingdon.

*Ptychoptera albimana* (Fabricius): Aberdour, NO 40.  
*Ptychoptera lacustris* Meigen: NO 40.  
*Ptychoptera minuta* Tonnoir: NO 21  
*Ptychoptera scutellaris* Meigen: NO 41.

### **Dixidae**

*Dixa nubilipennis* Curtis: Dumbarrie Links.

### **Culicidae - mosquitoes etc.**

*Aedes detritus* (Haliday): Salt-marshes, including Tayport and Torry Bay.  
*Aedes punctor* (Kirby): Tentsmuir.  
*Anopheles claviger* (Meigen): Dumbarrie Links, Tentsmuir; and NO31, 42.  
*Anopheles plumbeus* Stephens: Aberdour, Culross, larvae in tree-holes.  
*Culex pipiens* L.: Widespread, feed on birds.  
*Culiseta annulata* (Schrank): Widespread, often indoors.  
*Culiseta alaskaensis* (Ludlow): Tentsmuir, 1949.  
*Culiseta morsitans* (Theobald): NO21.  
*Culiseta subochrea* (Edwards): St Andrews, 1947.

### **Ceratopogonidae - biting midges**

Most records derive from a study at Newburgh in 1960.

*Culicoides chiopterus* (Meigen): Newburgh.  
*Culicoides circumscriptus* Kieffer: Newburgh.  
*Culicoides dewulfi* Goetghebuer: Newburgh.  
*Culicoides fascipennis* (Staeger): Leuchars, Newburgh.  
*Culicoides grisescens* Edwards: Newburgh.  
*Culicoides newsteadi* Austen: Newburgh, as *C. halophilus*.  
*Culicoides heliophilus* Edwards: Leuchars, Newburgh.  
*Culicoides obsoletus* (Meigen): Leuchars, Newburgh.  
*Culicoides pallidicornis* Kieffer: Newburgh.  
*Culicoides pulicaris* (L.): Leuchars, Newburgh.  
*Culicoides punctatus* (Meigen): Leuchars, Newburgh, Tentsmuir; the common biting midge but rarely troublesome in Fife.  
*Culicoides riethi* Kieffer: Newburgh.  
*Culicoides salinarius* Kieffer: Newburgh.  
*Culicoides stigma* (Meigen): Newburgh.  
*Forcipomyia ciliata* (Winnertz): Lundin Links, St Andrews.  
*Forcipomyia bipunctata* (L.): Tentsmuir.  
*Palpomyia flavipes* (Meigen): Dumbarnie Links.  
*Schizohelia leucopeza* (Meigen): I of May, as *Monohelia leucopeza*.

### **Simuliidae - blackflies**

Larvae in running water, adults blood-suckers; most records from maps by Davis (1968): *A key to the British species of Simuliidae*. Freshwater Biological Association, Sc. Publication 24.

*Simulium argyreatum* Meigen: NO21, as *S. monticola*.  
*Simulium cryophilum* (Rubtsov): NO18, as *S. brevicale*.  
*Simulium ornatum* Meigen: Dumbarnie Links (in slow-flowing ditch); also NO21,42.  
*Simulium reptans* (L.): NO21.

### **Chironomidae - non-biting midges.**

Larvae mostly aquatic, many more species probably present.

[*Ablabesmyia phatta* (Egger): Kinghorn, doubtful record.]  
*Brillia modesta* (Meigen): Dumbarnie Links; larvae in Eden.  
*Chaetocladius dissipatus* (Edwards): I of May.  
[*Chironomus annularius*: I of May, Kinghorn, doubtful.]  
[*Chironomus dorsalis*: Thornton, name probably incorrect.]  
*Chironomus plumosus* (L.): I of May, Inchkeith, Newburn.  
*Chironomus prasinus* Meigen: I of May.  
*Chironomus riparius* Meigen: I of May.  
*Chironomus tentans* Fabricius: Kinghorn, as *Camptochironomus tentans*.  
*Clunio marinus* Haliday: St Andrews, abundant on shore [larvae intertidal].  
*Cricotopus annulator* Goetghebuer: Larvae in Eden.  
*Cricotopus sylvestris* (Fabricius): I of May.  
*Cricotopus trifascia* Edwards: Larvae in Eden.  
*Cricotopus trifasciatus* (Meigen): Larvae in Eden, as *Isocladius trifasciatus*.  
*Eukiefferiella claripennis* (Lindbeck): Larvae in Eden.  
*Eukiefferiella ilkleyensis* (Edwards): Larvae in Eden.  
*Eukiefferiella minor* (Edwards): Larvae in Eden.  
*Glyptotendipes viridis* (Macquart): I of May.  
*Halocladius varians* (Staeger): I of May, as *Cricotopus vitripennis* [larvae in intertidal pools].  
*Metriocnemus eurynotus* (Holmgren): Dumbarnie Links.  
*Metriocnemus fuscipes* (Meigen): Dumbarnie Links.  
*Metriocnemus martinii* Thienemann: Larvae in Eden, as *M. cavicola*.  
*Micropsectra atrofasciata* (Kieffer): Dumbarnie Links.  
*Paratrichocladius skirwithensis* (Edwards): Larvae in Eden.  
*Potthastia longimana* (Kieffer): Larvae in Eden.  
*Prodiamesa olivacea* (Meigen): Dumbarnie Links.  
*Psectrocladius sordidellus* (Zetterstedt): I of May.  
*Rheocricotopus fuscipes* (Kieffer): Larvae in Eden.

*Smittia aterrima* (Meigen): Dumbarnie Links.  
*Tvetenia calvescens* (Edwards): Larvae in Eden.  
*Tvetenia discoloripes* (Goetghebuer): Larvae in Eden.  
*Tvetenia verralli* (Edwards): Larvae in Eden.

### **Xylophagidae**

Large, slender flies, larvae in dead wood.

*Xylophagus ater* Meigen: W Fife, woodland.

### **Rhagionidae**

Large boldly marked flies, larvae in leaf-litter, dead wood etc.

*Chrysopilus cristatus* (Fabricius): Wetlands.  
*Rhagio lineola* Fabricius: Aberdour, Earlshall Muir, Newburn.  
*Rhagio scolopaceus* (L.): Widespread.  
*Rhagio tringarius* (L.): Dumbarnie Links, Newburn.

### **Tabanidae - horse flies etc.**

Females suck blood; larvae predatory in wet soil, rotting wood etc.

*Chrysops caecutiens* (L.): Widespread.  
*Chrysops viduatus* (Fabricius): 1 of May, as *C. quadratus*.  
*Haematopota pluvialis* (L.): Cleg; widespread but sparse.  
[*Tabanus cordiger*: VC 85]

### **Stratiomyidae - soldier flies**

Includes several large, boldly coloured flies; larvae in soil, rotting wood etc., some aquatic.

*Beris chalybeata* (Forster): Barnyards Marsh, Newburn; and Lochgelly, 1902-8.  
*Beris geniculata* Haliday: Widespread in east.  
*Beris vallata* (Forster): Widespread but sparse.  
*Chloromyia formosa* (Scopoli): Widespread.  
*Microchrysa cyaneiventris* (Zetterstedt): Aberdour, 1902-4; Dumbarnie Links, 2004.  
*Microchrysa flavicornis* (Meigen): Earlshall; and Aberdour, 1904.  
*Microchrysa polita* (L.): Newburn.  
*Nemotelus notatus* Zetterstedt: Torry Bay, Eden Estuary.  
*Nemotelus uliginosus* (L.): Cocklemill Marsh, Charlestown.  
*Sargus flavipes* Meigen: Earlshall Muir, Tentsmuir, as *S. splendens*.  
*Sargus irridatus* (Scopoli): St Andrews.

### **Bombyliidae - bee-flies**

Bee-like flies, some parasitic on bees.

*Bombylius major* L.: Newburn, N Queensferry, Valleyfield, April and May.  
*Villa modesta* (Meigen): Leven, Elie, as *V. paniscus*.

### **Therevidae - stiletto-flies**

*Acrosathe annulata* (Fabricius): Dumbarnie Links, Earlshall Muir, Tentsmuir, = *Thereva annulata*.  
*Thereva nobilitata* (Fabricius): Dumbarnie Links, Tentsmuir.

### **Asilidae - robber flies**

Adults prey on other insects, larvae in decaying vegetation.

*Dysmachus trigonus* (Meigen): Tentsmuir.  
*Leptogaster guttiventris* Zetterstedt: Dumbarnie Links, Tentsmuir.  
*Philonicus albiceps* (Meigen): Coastal dunes.  
*Rhadiurgus variabilis* (Zetterstedt): Tentsmuir.

### **Hybotidae**

Formerly in Empididae.

*Bicellaria pilosa* Lundbeck: Cowdenbeath, 1904.  
*Chersodromia alata* (Walker): Dumbarrie Links.  
*Crossopalpus nigritellus* (Zetterstedt): Dumbarrie Links.  
*Hybos culiciformis* (Fabricius): Dumbarrie Links.  
*Hybos femoratus* (Müller): Cullaloe.  
*Ocydromia glabricula* (Fallén): Aberdour.  
*Oedalea stigmatella* Zetterstedt: Cullaloe.  
*Platypalpus longiseta* (Zetterstedt): Dumbarrie Links.  
*Platypalpus notatus* (Meigen): Dumbarrie Links.  
*Tachydromia aemula* (Loew): Dumbarrie Links.  
*Trichia opaca* Loew: Dumbarrie Links.

### **Empididae - dance flies**

Adults are predators on other dipterous flies, larvae in soil or mud; the largest is the widespread *Empis tessellata*.

*Clinocera stagnalis* (Haliday): Dumbarrie Links.  
*Empis livida* L.: Widespread.  
*Empis lutea* Meigen: Aberdour.  
*Empis nigripes* Fabricius: W Fife.  
*Empis nuntia* Meigen: Newburn.  
*Empis opaca* Meigen: Dumbarrie Links, Kilconquhar.  
*Empis punctata* Meigen: Dumbarrie Links, Kilconquhar.  
*Empis tessellata* Fabricius: Widespread.  
*Empis trigramma* Wiedemann: Dumbarrie Links, Largo.  
*Hilara canescens* Zetterstedt: Dumbarrie Links.  
*Hilara chorica* (Fallén): Cullaloe.  
*Hilara clypeata* Meigen: Dumbarrie Links.  
*Hilara litorea* (Fallén): Dumbarrie Links, W Wemyss.  
*Hilara lundbecki* Frey: Dumbarrie Links.  
*Hilara maura* (Fabricius): Widespread.  
*Rhamphomyia albosegmentata* Zetterstedt: Cowdenbeath.  
*Rhamphomyia barbata* (Macquart): Dumbarrie Links.  
*Rhamphomyia crassirostris* (Fallén): Bogside, W Fife, 1911, as *R. nigripes*.  
*Rhamphomyia erythrophthalma* Meigen: Dumbarrie Links, 1 of May.  
*Rhamphomyia sulcata* (Meigen): Dumbarrie Links.  
*Wiedemmania bistigma* (Curtis): Larvae in Eden.

### **Dolichopodidae - long-headed flies.**

Predators on small insects and larvae.

*Achalcus cinereus* (Haliday): Bankhead Moss.  
*Anepsomyia flaviventris* (Meigen): Dura Den, St Michaels Wood.  
*Aphrosylus celtiber* Haliday: Earlsferry, Largo Bay, intertidal [only known site in East Scotland].  
*Aphrosylus ferox* Haliday: Dumbarrie Links, 1s of May.  
*Campsicnemus curvipes* (Fallén): Dumbarrie Links, Tentsmuir.  
*Campsicnemus scambus* (Fallén): Tentsmuir.  
*Dolichopus claviger* Stannius: Dumbarrie Links (+N041).  
*Dolichopus longicornis* Stannius: 'Fife'.  
*Dolichopus planitarsis* Fallén: Cowdenbeath.  
*Dolichopus trivialis* Haliday: Dumbarrie Links.  
*Dolichopus unguulatus* (L.): Dumbarrie Links.  
*Hercostomus germanus* (Wiedemann): Dumbarrie Links.  
*Hercostomus metallicua* (Stannius): Kilconquhar.  
*Liancalus virens* (Scopoli): Aberdour.  
*Medetera petrophila* Kowarz: Ruddons Point.  
*Medetera pinicola* Kowarz: Tentsmuir.  
*Medetera truncorum* Meigen: Dumbarrie Links.  
*Rhaphium appendiculatum* Zetterstedt: Cullaloe, = *Xiphandrium appendiculatum*, *Rhaphium macrocerum*.  
*Sciapus platypterus* (Fabricius): Aberdour, as *Dolichopus platypterus*.  
*Sympycnus desoutteri* Parent: Dumbarrie Links.  
*Xanthochlorus ornatus* (Haliday): Dumbarrie Links.

## Opetiidae

*Opetia nigra* Meigen: Dumbarnie Links.

## Platypezidae - flat-footed flies

Larvae in fungi.

*Polyporivora ornata* (Meigen): Aberdour, as *Platypeza ornata*.

## Phoridae - scuttle flies

A very large family of small flies.

*Anevrina curvinervis* (Becker): Dumbarnie Links, at carrion.

*Anevrina urbana* (Meigen): Dumbarnie Links.

*Borophaga incrassata* (Meigen): Dumbarnie Links [larvae parasitic on larvae of *Bibio marci*].

[*Megaselia pleuralis* (Wood): 1 of May, doubtful.]

*Megaselia rufipes* (Meigen): Newburn, indoors.

*Phora atra* (Meigen): Dumbarnie Links.

*Spiniphora bergenstammi* (Mik): Dumbarnie Links, reared from dead snails.

*Triphleba lugubris* (Meigen): Dumbarnie Links.

## Lonchopteridae - pointed-wing flies

*Lonchoptera bifurcata* (Fallén): Tentsmuir, as *L.furcata*.

*Lonchoptera lutea* Panzer: Widespread.

## Syrphidae - hoverflies

Active flies, many with bold yellow and black patterns; adults visit flowers. Some with predatory, mostly aphid-eating, larvae; others with larvae in water, mud, dead wood or, in a few cases, bulbs or stems of plants. Thanks to Ken Watt for providing the basis for this list.

*Anasimyia lineata* (Fabricius): Culross, [larvae aquatic].

*Arctophila superbiens* (Müller): Falkland, a bee-mimic with aquatic larvae, = *A.fulva*.

*Baccha elongata* (Fabricius): Widespread; slender-bodied, including *B.obscuripennis*.

*Cheilosia albitarsis* (Meigen): Widespread, [larvae feed on living plants].

*Cheilosia bergenstammi* Becker: Local, [larvae in ragwort stems].

*Cheilosia fraterna* (Meigen): Tentsmuir, Waterless Wood; wetland.

*Cheilosia grossa* (Fallén): Kilconquhar, Kincapple, Moss Morran.

*Cheilosia illustrata* (Harris): Widespread, a bee-mimic, often on umbel flowers.

*Cheilosia impressa* Löw: Dunfermline, wet woods.

*Cheilosia lasiopa* Kowarz: Largo, Tentsmuir; as *C.honesta*.

*Cheilosia longula* (Zetterstedt): Tentsmuir.

*Cheilosia pagana* (Meigen): 3 sites, on umbels.

*Cheilosia proxima* (Zetterstedt): Dura Den and NO42.

*Cheilosia scutellata* (Fallén): Tentsmuir.

*Cheilosia variabilis* (Panzer): Widespread, woods.

*Cheilosia vernalis* (Fallén): 2 sites.

*Cheilosia vicina* (Zetterstedt): Dumbarnie Links, Kilconquhar, = *C.nasutula*.

*Chrysogaster cemiteriorum* (L.): Auchtertool.

*Chrysogaster solstitialis* (Fallén): Charleton, Keils Den; [larvae in mud].

*Chrysotoxum arcuatum* (L.): Widespread, woodland edge etc.

*Chrysotoxum bicinctum* (L.): St Andrews, Tentsmuir, Torry Bay.

*Criorhina berberina* (Fabricius): 3 sites, [larvae in dead wood].

*Criorhina floccosa* (Meigen): NO41.

*Dasysyrphus albostrigatus* (Fallén): Widespread, woods and gardens.

*Dasysyrphus pinastri* (De Geer): Morton Lochs, = *D.lunulatus*.

*Dasysyrphus tricinctus* (Fallén): Dunfermline, Glenduckie, Tentsmuir.

*Dasysyrphus venustus* (Meigen): 3 sites.

*Didea fasciata* Macquart: 2 sites, woodland.

*Didea intermedia* Löw: Morton Lochs.

*Epistrophe eligans* (Harris): Widespread.



*Epistrophe grossulariae* (Meigen): Widespread, wood-edge, often on umbels.  
*Episyrphus balteatus* (De Geer): Widespread, often in gardens, boosted by migrants.  
*Eriozona erratica* (L.): Morton Lochs.  
*Eriozona syrphoides* (Fallén): Morton Lochs.  
*Eristalinus aeneus* (Scopoli): 1 of May.  
*Eristalinus sepulchralis* (L.): NO41.  
*Eristalis abusivus* Collin: Dumbarrie Links, Morton Lochs.  
*Eristalis arbustorum* (L.): Widespread, [larvae in drains etc].  
*Eristalis horticola* (De Geer): Widespread.  
*Eristalis intricarius* (L.): Widespread.  
*Eristalis interruptus* Poda: Dumbarrie Links, plus NO41, NO42; including *E.nemorum*.  
*Eristalis pertinax* (Scopoli): Widespread, like next species, bee-mimics, common in gardens.  
*Eristalis tenax* (L.): Widespread.  
*Eumerus funeralis* (Meigen), Lesser Narcissus bulb fly: Newburn, St Andrews.  
*Eupeodes corollae* (Fabricius): A migrant, recorded 1 of May and E Neuk.  
*Eupeodes luniger* (Meigen): Widespread and migratory.  
*Ferdinanda cuprea* (Scopoli): Lundin Links, [larvae in sap].  
*Helophilus pendulus* (L.): Widespread, [larvae in manure etc].  
*Helophilus trivittatus* (Fabricius): Widespread but sparse.  
*Heringia verrucula* (Collin): Tentsmuir, as *Neocnemodon verrucula*.  
*Lejogaster metallina* (Fabricius): Barnyards Marsh, Lielowan, Tentsmuir.  
*Leucozonia glauca* (L.): 4 sites, on umbels.  
*Leucozonia laternaria* (Müller): 2 sites, woods.  
*Leucozonia lucorum* (L.): 2 sites, damp woods.  
*Melangyna arctica* (Zetterstedt): NO 41.  
*Melangyna cincta* (Fallén): Largo.  
*Melangyna compositarum* (Verrall): 3 sites.  
*Melangyna labiatarum* (Verrall): Dumfermline.  
*Melangyna lasiophthalma* (Zetterstedt): Dunfermline, Lundin Links.  
*Melangyna umbellatarum* (Fabricius): Lundin Links.  
*Melanostoma mellinum* (L.): Widespread, especially in grassland.  
*Melanostoma scalare* (Fabricius): Widespread, especially grassland.  
*Meliscaeva auricollis* (Meigen): Widespread in east; a narrow-bodied species.  
*Meliscaeva cinctella* (Zetterstedt): Widespread, woodland.  
*Merodon equestris* (Fabricius): Widespread, [larvae in bulbs, e.g. of bluebell].  
*Myathropa florea* (L.): Woodland and gardens [larvae in rot-holes].  
*Neoascia meticulosa* (Scopoli): Dura Den.  
*Neoascia obliqua* (Coe): 3 sites.  
*Neoascia podagrica* (Fabricius): Widespread.  
*Neoascia tenur* (Harris): Dura Den.  
*Paragus haemorrhous* Meigen: Tentsmuir, + NT 18, 28.  
[*Paragus tibialis* (Fallén): Aberdour, probably erroneous]  
*Parasyrphus lineola* (Zetterstedt): Blairadam, Tentsmuir.  
*Parasyrphus malinellus* (Collin): Springfield.  
*Parasyrphus punctulatus* (Verrall): Springfield, Tentsmuir.  
*Parasyrphus vittiger* (Zetterstedt): Springfield, Tentsmuir.  
*Pipiza austriaca* Meigen: Dunfermline.  
*Pipiza luteitarsus* Zetterstedt: Lundin Links.  
*Pipizella viduata* (L.): Earlshall Muir, Luthrie.  
*Platycheirus albimanus* (Fabricius): Widespread, common in gardens, = *P.cyaneus*.  
*Platycheirus angustatus* (Zetterstedt): Widespread.  
*Platycheirus clypeatus* (Meigen) s.s.: Widespread, grassland.  
*Platycheirus discimanus* Löw: Dunfermline, Morton Lochs.  
*Platycheirus granditarsus* (Forster): Widespread, damp meadows, = *Pyrophaena granditarsus*.  
*Platycheirus manicatus* (Meigen): Widespread, especially in grassland.  
*Platycheirus peltatus* (Meigen) s.s.: Widespread.  
*Platycheirus rosarum* (Fabricius): NO41, 52.  
*Platycheirus scambus* (Staeger): Dunfermline, + NO51.  
*Platycheirus scutatus* (Meigen): Widespread, especially woodland edge.  
*Portevinia maculata* (Fallén): Springfield, [on ramsons].  
*Rhingia campestris* Meigen: Widespread, [larvae in cowdung].  
*Riponnensia splendens* (Meigen): Widespread, as *Orthonevra splendens*.

*Scaeva pyrastris* (L.): Widespread, gardens, dunes, and migrant at I of May.  
*Scaeva selenitica* (Meigen): I of May (1910/11); Newburn (2004), Tentsmuir.  
*Sericomyia lappona* (L.): Dunfermline, Lomonds.  
*Sericomyia silentis* (Harris): Widespread, wetland.  
*Sphaerophoria batava* Goeldin de Tiefenou: Tentsmuir.  
*Sphaerophoria interrupta* (Fabricius): Dumbarrie Links.  
*Sphaerophoria philanthus* (Meigen): Dunfermline.  
*Sphaerophoria scripta* (L.): Widespread.  
*Sphegina clunipes* (Fallén): Morton Lochs, [larvae in dead wood].  
*Syrirta pipiens* (L.): Widespread in gardens, small, slim, [larvae in compost etc].  
*Syrphus ribesii* (L.): Abundant in gardens, also a migrant.  
*Syrphus torvus* Osten Sacken: 4 sites, woods.  
*Syrphus vitripennis* Meigen: Widespread, a common migrant.  
*Trichopsomyia flavitarsis* (Meigen): Tentsmuir Forest.  
*Tropidia scita* (Harris): Kincaple Den, Tentsmuir.  
*Volucella bombylans* (L.): Widespread but sparse.  
*Volucella pellucens* (L.): Widespread, large, black, [larvae in nests of bees and wasps].  
*Xanthandrus comtus* (Harris): I of May, 1910, one of only 8 records in Scotland; a migratory species.  
*Xylota jakutorum* Bagachanova: Tentsmuir [larvae under bark of conifers]; formerly *Xylota coeruleiventris*.  
*Xylota segnis* (L.): Widespread, [larvae in dead wood].  
*Xylota sylvarum* (L.): 3 sites.

### **Pipunculidae - big-headed flies**

Larvae parasitic in insects.

*Cephalops obtusinervis* (Zetterstedt): Moss Wood (Wemyss), 1965.  
*Chalarus spurius* (Fallén): Dumbarrie Links.

### **Micropezidae - stilt-legged flies**

*Colobata petronella* (L.): Newburn.

### **Psilidae**

Larvae in roots and stems.

*Chyliza annulipes* Macquart: Tentsmuir, as *C. fuscipennis*.  
*Loxocera albiseta* (Schrank): Melville Landfill Site.  
*Psila cf. fimetaria* (L.): Aberdour, Baryards Marsh, I of May.  
*Psila merdaria* Collin: Newburn.  
*Chamaepsila atra* (Meigen): Lundin Links.  
*Chamaepsila nigra* (Fallén): Dumbarrie Links, Lundin Links.  
*Chamaepsila nigricornis* (Meigen): Dumbarrie Links, Tentsmuir.  
*Chamaepsila obscuritarsis* (Loew): Dumbarrie Links, Lundin Links.  
*Chamaepsila pallida* (Fallén): Dumbarrie Links, I of May, as *Psila pallida*.  
*Chamaepsila rosae* (Fabricius): Carrot-fly; Dumbarrie Links.

### **Conopidae - thick-headed flies**

*Conops quadrifasciatus* De Geer: Newburn, Tentsmuir [parasite on bumble bees].  
*Myopa buccata* (L.): Tentsmuir.  
*Sicus ferrugineus* (L.): Dumbarrie Links, Tentsmuir.

### **Lonchaeidae**

*Dasiops mucronatus* Morge: Dumbarrie Links; and Aberdour, pre-1904.  
*Lonchaea mallochi* MacGowan & Rotheray: Balmerino, larvae under bark of ash.

### **Pallopteridae**

Small picture-winged flies.

*Palloptera modesta* (Meigen): Lochgelly.  
*Palloptera quinque maculata* (Macquart): Dumbarrie Links, Kirkcaldy.

*Paloptera saltuum* (L.): Dumbarnie Links, W Wemyss.  
*Paloptera trimacula* (Meigen): Cullaloe.  
*Paloptera umbellatarum* (Fabricius): Newburn, Oakley.

### **Piophilidae**

*Liopiophila varipes* (Meigen): Dumbarnie Links, on carrion.  
*Parapiophila vulgaris* (Fallén): Dumbarnie Links, Tentsmuir.

### **Ulidiidae - picture-winged flies**

Small flies with patterned wings, formerly Otitidae.

*Herina frondescentiae* (L.): Oakley.

### **Tephritidae - picture-winged flies**

Some with gall-forming larvae.

*Campiglossa absinthii* (Fabricius): Charlestown, Pettycur, as *Paroxyna absinthii*.  
*Campiglossa plantaginis* (Haliday): Tayport Bay, Torry Bay, saltmarsh; in seed-heads of sea aster, *Aster trifolium*.  
*Chaetostomella cylindrica* (Robineau-Desvoidy): Widespread, reared from *Centaurea*.  
*Euleia heraclei* (L.): Widespread, mines in *Heracleum*.  
*Dioxyna bidentis* (Robineau-Desvoidy): Burntisland, Dumbarnie Links, Fife Ness.  
*Rhagoletis alternata* (Fallén): Anstruther, Dumbarnie Links, Lindores; larvae in rose-hips.  
*Tephritis bardanae* (Schrank): Dumbarnie Links, Newburn, on burdock.  
*Tephritis hyoscyami* (L.): Dumbarnie Links [on *Carduus* thistles].  
*Tephritis leontodontis* (De Geer): Burntisland.  
*Tephritis neesii* (Meigen): Widespread, in flowerheads of oxeye daisy, *Chrysanthemum leucanthemum*  
*Tephritis vespertina* Loew: Dumbarnie Links; [larvae on *Crepis* and *Hypochaeris*].  
*Terellia serratulae* (L.): Widespread on coast; reared from *Cirsium vulgare*.  
*Trypeta artemisiae* (Fabricius): Charlestown, Pettycur, on *Artemisia*, as *Spilographa artemisiae*.  
*Urophora jaceana* (Hering): Widespread, on *Centaurea nigra*.  
*Xyphosia miliaria* (Schrank): Widespread, on thistles.

### **Lauxaniidae**

*Aulogastromyia anisodactyla* (Loew): Kirkcaldy (Raith Woods).  
*Caliopum aeneum* (Fallén): Dumbarnie Links.  
*Caliopum elisae* (Meigen): Dumbarnie Links (and perhaps Culross Moor).  
*Lyciella affinis* (Zetterstedt): Moss Wood (Wemyss).  
*Lyciella illota* (Loew): Cullaloe (and pre-1904 record from Aberdour).  
*Lyciella pallidiventris* (Fallén): Tentsmuir.  
*Lyciella rorida* (Fallén): Aberdour, Newburn.  
*Minettia fasciata* (Fallén): Dumbarnie Links.  
*Minettia longipennis* (Fabricius): Aberdour, 1904, as *Sapromyza longipennis*.  
*Sapromyza sordida* Haliday: Kilminning.  
*Tricholauxania praeusta* (Fallén): Devilla Forest; old records from S coast.

### **Chamaemyiidae**

Larvae prey upon aphids.

*Chamaemyia herbarum* (Robineau-Desvoidy): Dumbarnie Links, Wemyss Woods.  
[*Chamaemyia juncorum* (Fallén): 1 of May; needs confirmation.]

### **Coelopidae - kelp flies**

All in rotting seaweed.

*Coelopa frigida* (Fabricius): Widespread on coast.  
*Coelopa pilipes* Haliday: Dumbarnie Links, St Andrews.

### **Dryomyzidae**

*Helcomyza ustulata* Curtis: St Andrews, in rotting seaweed.

*Heterocheila buccata* (Fallén): Dumbarnie Links, St Andrews, in rotting seaweed, = *Oedoparea buccata*.  
*Neuroctena anilis* (Fallén): Lundin Links, Newburn.

### **Phaeomyiidae**

Parasites of millipedes.

*Pelidnoptera fuscipennis* (Meigen): Oakley.  
*Pelidnoptera nigripennis* (Fabricius): Dumbarnie Links.

### **Sciomyzidae - marsh flies**

Larvae mostly aquatic.

*Euthycera fumigata* (Scopoli): Dumbarnie Links.  
*Ilione albiseta* (Scopoli): c.NO42.  
*Limnia unguicornis* (Scopoli): Dumbarnie Links.  
*Pherbellia cinerella* (Fallén): Dumbarnie Links, Tentsmuir.  
*Pherbellia dubia* (Fallén): Dumbarnie Links.  
*Pherbellia griseola* (Fallén): Tentsmuir.  
*Renocera stroblii* Hendel: NO40.  
*Tetanocera elata* (Fabricius): Dumbarnie Links, Tentsmuir.  
*Tetanocera hyalipennis* von Roser: Tentsmuir.  
*Tetanura pallidiventris* Fallén: Kinghorn.  
*Trypetoptera punctulata* (Scopoli): Moss Wood (Wemyss), Tentsmuir.

### **Sepsidae**

Larvae mainly in dung; 10km atlas by Pont (1986): Provisional atlas of the Sepsidae (Diptera) of the British Isles, Biological Records Centre, Huntingdon.

*Nemopoda nitidula* (Fallén): Dumbarnie Links, and NT08, 28.  
*Orygma luctuosum* Meigen: Widespread on tidelinee, in rotting seaweed.  
*Sepsis cynipsea* (L.): Widespread.  
*Sepsis flavimana* Meigen: NT28.  
*Sepsis fulgens* Meigen: NO51, Tentsmuir.  
*Sepsis orthocnemis* Frey: Tentsmuir.  
*Sepsis punctum* (Fabricius): NT08, NO51.  
*Sepsis violacea* Meigen: NT08.  
*Themira annulipes* (Meigen): NO40.  
*Themira leachi* (Meigen): NT18.  
*Themira minor* (Haliday): NO21.  
*Themira putris* (L.): NT19, I of May.  
*Themira superba* (Haliday): NT19.

### **Agromyzidae - leaf-mining flies**

Larvae in mines in leaves (unless otherwise stated) or occasionally stems. Thanks to Keith Bland for providing the basis of this list.

*Agromyza alnibetulae* Hendel: Widespread, on *Betula* sp.  
*Agromyza alnivora* Spencer: Widespread, on *Alnus glutinosa*.  
*Agromyza ambigua* Fallén: Scarce, once only [on grass].  
*Agromyza mobilis* Meigen: Scarce, once only [on wheat].  
*Agromyza nana* Meigen: Common, on *Trifolium pratense*.  
*Agromyza nigrescens* Hendel: Kincaig, on *Geranium*.  
*Agromyza nigrociliata* Hendel: Scarce, once only [on grass].  
*Agromyza reptans* Fallén: Dumbarnie Links [on nettles].  
*Amauromyza labiatarum* (Hendel): Widespread, on *Stachys sylvatica*.  
*Aulagromyza tridentata* (Loew): Local, on *Salix fragilis*, = *Paraphytomyza tridentata*.  
*Cerodontha denticornis* (Panzer): Scarce, once only [on grass].  
*Cerodontha ireos* (Robineau-Desvoidy): Very local, on *Iris pseudocorus*.  
*Cerodontha luzulae* (Groschke): Common, on *Luzula sylvatica*.  
*Chromatomyia horticola* (Goureaux): Widespread, on *Galeopsis tetrahit*, = *Phytomyza horticola*.  
*Chromatomyia milii* (Kaltenbach): Widespread, on *Holcus lanatus*; = *Phytomyza milii*.  
*Chromatomyia nigra* (Meigen): Common, on various grasses, = *Phytomyza nigra*.

*Chromatomyia primulae* (Robinaeu-Desvoidy): Dumbarrie Links, Kinkell, on *Primula* spp.  
*Chromatomyia ramosa* (Hendel): Very local, on *Knautia scabiosa*; = *Phytomyza ramosa*.  
*Chromatomyia syngenesiae* Hardy: Common, on *Achillea ptarmica* and *Artemisia vulgaris*; = *Phytomyza syngenesiae*.  
*Liriomyza amoena* (Meigen): Common, on *Sambucus nigra*.  
*Liriomyza cicerina* (Rondani): Kincaig Point, leaf-mines on restharrow, *Ononis repens*.  
*Liriomyza flaveola* (Fallén): Scarce, once only [on grass].  
*Napomyza lateralis* (Fallén): Coastal, in flowerheads of *Tripleurospermum* spp.  
*Ophiomyia melandryi* de Meijere: Scarce, once only [on red campion].  
*Phytomyza angelicastris* Hering: Widespread, on *Angelica sylvestris*.  
*Phytomyza artemisivora* Spencer: Widespread near coast, on *Artemisia vulgaris*.  
*Phytomyza aquilegiae* Hardy: Newburn, on *Aquilegia*.  
*Phytomyza continua* Hendel: One record, Tayport.  
*Phytomyza crassiseta* Zetterstedt: Common, on *Veronica chamaedrys*.  
*Phytomyza fallaciosa* Brischke: Kilminning, on *Ranunculus repens*.  
*Phytomyza flavicornis* Fallén: Widespread, mines in stems of *Urtica dioica*.  
*Phytomyza heracleana* Hering: Common, on *Heracleum sphondylium*.  
*Phytomyza ilicis* Curtis: Very common, on *Ilex aquifolium*.  
*Phytomyza lappae* Goureau: 1 of May, mines in burdock.  
*Phytomyza minuscula* Goureau: Newburn; on *Aquilegia*.  
*Phytomyza obscurella* Fallén: Very local, on *Aegopodium*.  
*Phytomyza origani* Hering: Very local, on *Origanum vulgare*.  
*Phytomyza plantaginis* Robineau-Desvoidy: Very common, on *Plantago lanceolata*.  
*Phytomyza ranunculi* (Schrank): Very common, on *Ranunculus* spp.  
*Phytomyza spondylii* Robineau-Desvoidy: Common, on *Heracleum sphondylium*.  
*Phytomyza wahlgreni* Rydén: Dumbarrie Links; only known site in Scotland; [larvae in leaves of dandelion].

### Opomyzidae

Larvae in grass stems.

*Geomyza apicalis* (Meigen): Dumbarrie Links; apparently the only known Scottish site.  
 [*Geomyza balachowskii* Mesnil: Thornton, 1920, doubtful, as *Balioptera combinata*].  
*Geomyza subnigra* Drake: Dumbarrie Links; only one other Scottish site known.  
*Geomyza tripunctata* Fallén: Dumbarrie Links.  
*Geomyza venusta* (Meigen): 1 of May, as *Balioptera venusta*.  
*Opomyza florum* (Fabricius): Widespread.  
*Opomyza germinationis* (L.): Dumbarrie Links, 1 of May.  
*Opomyza punctella* Fallén: Dumbarrie Links.

### Chloropidae

Tiny flies, many colourful, larvae herbivorous.

*Aphanotrigonum nigripes* (Zetterstedt): Dumbarrie Links; reared from fungi.  
*Chlorops hypostigma* Meigen: Dumbarrie Links, Lundin Links; and 1 of May, 1910.  
*Chlorops pumilionis* (Bjerkander): Dumbarrie Links, Lundin Links.  
*Dicraeus vagans* (Meigen): Dumbarrie Links.  
*Elachiptera cornuta* (Fallén): Dumbarrie Links.  
*Elachiptera diastema* Collin: Bankhead Moss.  
*Elachiptera megaspis* (Loew): Dumbarrie Links.  
*Eutropha fulvifrons* (Haliday): Dumbarrie Links.  
*Lasiamba palposa* (Fallén): Tentsmuir, as *Fiebrigella palposa* and *Goniopsita palposa*.  
*Meromyza pratorum* Meigen: Dumbarrie Links, Tentsmuir, on dunes.  
*Oscinella frit* (L.): Frit fly; 1 of May 1911, a pest of cereals.  
*Oscinella nigerrima* (Macquart): Dumbarrie Links.  
*Oscinella vastator* (Curtis): Dumbarrie Links. [Perhaps a form of *O.frit*.]  
*Thaumatomyia glabra* (Meigen): Dumbarrie Links.  
*Thaumatomyia hallardica* Andersson: Tentsmuir Point.  
*Thaumatomyia notata* (Meigen): Dumbarrie Links, Morton Lochs.  
*Thaumatomyia trifasciata* (Zetterstedt): Morton Lochs.

### Heleomyzidae

Larvae in decaying material and fungi.

*Eccoptomera microps* (Meigen): Largo and Dumbarrie Links; in moles' nests.  
*Gymnomus caesius* (Meigen): Dumbarrie Links.  
*Heleomyza serrata* (L.): Indoors.  
*Heleomyza borealis* Boheman: 1 of May, as *Leria modesta*.  
*Heteromyza commixta* Collin: Dumbarrie Links.  
*Heteromyza rotundicornis* (Zetterstedt): Dumbarrie Links.  
*Neoleria maritima* (Villeneuve): Dumbarrie Links.  
*Suillia notata* (Meigen): Aberdour.  
*Suillia pallida* (Fallén): Aberdour.  
*Suilla variegata* (Loew): Dumbarrie Links, Newburn.  
*Tephrochlaena halterata* (Meigen): Dumbarrie Links, Tentsmuir, including *T.oraria*.  
*Tephrochlamys flavipes* (Zetterstedt): Newburn, Tentsmuir.  
*Tephrochlamys rufiventris* (Meigen): Dumbarrie Links.  
*Trixoscelis obscurella* (Fallén): Dumbarrie Links.

### **Sphaeroceridae - lesser dung flies**

*Chaetopodella scutellaris* (Haliday): Dumbarrie Links.  
*Coproica vagans* (Haliday): Dumbarrie Links, on carrion.  
*Copromyza stercoraria* (Meigen): Dumbarrie Links.  
*Crumomyia fimetaria* (Meigen): Dumbarrie Links, Newburn, on carrion.  
*Crumomyia nitida* (Meigen): Dumbarrie Links.  
*Crumomyia rosarii* (Rondani): Dumbarrie Links.  
*Gonioneura spinipennis* (Haliday): Dumbarrie Links.  
*Ischiolepta pusilla* (Fallén): Dumbarrie Links.  
*Leptocera fontinalis* (Fallén): Dumbarrie Links, Lundin Links.  
*Lotophila atra* (Meigen): Dumbarrie Links, at carrion.  
*Minilimosina fungicola* (Haliday): Dumbarrie Links, at carrion.  
*Pseudocollinella humida* (Haliday): Dumbarrie Links.  
*Pteremis fenestralis* (Fallén): Dumbarrie Links, 1 of May, in small mammal nests and runs, = *Limosina nivalis*.  
*Sphaerocera curvipes* Latreille: Dumbarrie Links, in horse dung.  
*Sphaerocera monilis* Haliday: Lundin Links.  
*Spelobia clunipes* (Meigen): Dumbarrie Links.  
*Spelobia luteibarbis* (Rondani): Dumbarrie Links.  
*Thoracochaeta brachystoma* (Stenhammer): Dumbarrie Links, tideline wrack.  
*Thoracochaeta zosteræ* (Haliday): Dumbarrie Links, 1 of May, St Andrews, in rotting seaweed.

### **Drosophilidae - fruit-flies**

*Drosophila andalusiaca* Strobl: Barnyards Marsh, Dumbarrie Links.  
*Drosophila busckii* Coquillett: Devilla, Dumbarrie Links; larvae in toadstools.  
*Drosophila cameraria* Haliday: Dumbarrie Links, in fungi; and Kinghorn.  
*Drosophila funebris* (Fabricius): Dumbarrie Links, St Andrews Bay, in decaying seaweed and in fungi.  
*Drosophila melanogaster* Meigen: Inverkeithing.  
*Drosophila obscura* Fallén: Inverkeithing.  
*Drosophila phalerata* Meigen: Inverkeithing.  
*Drosophila subobscura* Collin: Dumbarrie Links, Inverkeithing.  
*Drosophila subsilvestris* Hardy & Kaneshiro: Inverkeithing, as *D.silvestris*.  
*Drosophila transversa* Fallén: Dumbarrie Links, reared from fungi.  
*Scaptomyza flava* (Fallén): Pettycur, reared from *Cochlearia*.  
*Scaptomyza graminum* (Fallén): Tentsmuir; and Kinghorn, 1896.  
*Scaptomyza pallida* (Zetterstedt): Dumbarrie Links.

### **Diastatidae**

*Diastata costata* Meigen: Dumbarrie Links.

### **Camillidae**

*Camilla flavicauda* Duda: Dumbarrie Links.

## Ephydriidae – shoreflies

*Hyadina guttata* (Fallén): Dumbarnie Links.  
*Hydrellia griseola* (Fallén): Dumbarnie Links.  
*Lamproscatella sibilans* (Haliday): Dumbarnie Links.  
*Limnelli quadrata* (Fallén): Dumbarnie Links.  
*Notiphila cinerea* Fallén: Two sites.  
*Parydra coarctata* (Fallén): Aberdour.  
*Parydra quadripunctata* (Meigen): Dumbarnie Links.  
*Psilopa leucostoma* (Meigen): Dumbarnie Links.  
*Scatella stagnalis* (Fallén): Aberdour, Dumbarnie Links.  
*Scatella palludum* (Meigen): Aberdour.  
*Scatella subguttata* (Meigen): Dumbarnie Links.  
*Setacera micans* (Haliday): Dumbarnie Links; only known site in Scotland.

## Hippoboscidae - flat-flies

Blood-sucking parasites of birds and mammals.

*Ornithomya avicularia* (L.): Newburn, in nest of tree sparrow.  
*Ornithomya chloropus* Bergroth: On many birds, especially passerines.  
*Stenopteryx hirundinis* (L.): Widespread on house martins.

## Nycteribiidae - bat flies

Wingless external parasites of bats.

*Nycteribia kolenatii* Theodor & Moscona: Leslie, on Daubenton's bat, *Myotis daubentonii*.

## Scathophagidae - dung-flies etc.

Includes species with dung-feeding, herbivorous and predatory larvae.

*Ceratinostoma ostiorum* (Haliday): Dumbarnie Links, on shore.  
*Cordilura albipes* Fallén: Dumbarnie Links, Tentsmuir.  
*Delina nigrita* (Fallén): Tentsmuir.  
*Nanna fasciata* (Meigen): Moss Wood (Wemyss).  
*Nanna inermis* (Becker): Cowdenbeath.  
*Norellisoma lituratum* (Wiedemann): Moss Wood (Wemyss), as *N. flavicorne*.  
*Norellisoma spinimanum* (Fallén): Dumbarnie Links, Kinkell, Tentsmuir.  
*Scathophaga calida* Haliday: Aberdour, Culross, St Andrews, including *Scopeuma villipes*.  
*Scathophaga furcata* (Say): Newburn.  
*Scathophaga litorea* (Fallén): Coastal.  
*Scathophaga stercoraria* (L.): Widespread, the commonest yellow dung-fly on cowpats.  
*Spaziphora hydromyzina* (Fallén): Cowdenbeath.

## Anthomyiidae - flower-flies

Adults often on flowers, larvae varied -- in fungi, rotting wood and plants, including some pest species such as the wheat bulb fly, *Delia coarctata*.

*Alliopsis silvestris* (Fallén): Tentsmuir, as *Paraprosalpia silvestris*.  
*Anthomyia liturata* (Robineau-Desvoidy): Carlingnose, Dumbarnie Links, Tentsmuir.  
*Anthomyia pluvialis* (L.): Falkland, I of May.  
*Botanophila brunneilinea* (Zetterstedt): Carlingnose, Kinkell.  
*Botanophila depressa* (Stein): Ruddons Point.  
*Botanophila fugax* (Meigen): Widespread, at least on S coast.  
*Botanophila jacobaeae* (Hardy): Tentsmuir.  
*Botanophila sericea* (Malloch): Tentsmuir.  
*Botanophila striolata* (Fallén): Dumbarnie Links, Lundin Links.  
*Chirosia betuleti* (Ringdahl): Widespread, galls on ferns.  
*Chirosia flavipennis* (Fallén): Aberdour, as *Hylemya flavipennis*.  
*Chirosia grossicauda* Strobl: Blairadam, galls on ferns, as *C. parvicornis*.  
*Chirosia latipennis* (Zetterstedt): Tentsmuir, as *Acrostilpna latipennis*.  
*Delia cardui* (Meigen): Tentsmuir.  
*Delia carduiformis* (Schnabl): Dumbarnie Links, Ruddons Point.

*Delia coarctata* (Fallén): Wheat bulb fly; Widespread.  
*Delia criniventris* (Zetterstedt): Kinkell Braes.  
*Delia echinata* (Séguy): Lundin Links.  
*Delia florilega* (Zetterstedt): Kinkell, Lundin Links, Tentsmuir.  
*Delia frontella* (Zetterstedt): Dumbarnie Links.  
*Delia lamelliseta* (Stein): Kinkell Braes.  
*Delia linearis* (Stein): Kinkell Braes.  
*Delia pallipennis* (Zetterstedt): Earlshall Muir, including *D.candens*.  
*Delia planipalpis* (Stein): Dumbarnie Links.  
*Delia platura* (Meigen): Widespread.  
*Delia radicum* (L.): Lundin Links.  
*Egle ciliata* (Walker): Aberdour.  
*Fucellia fucorum* (Fallén): Coastal.  
*Fucellia maritima* (Haliday): In seaweed.  
*Hydrophoria lancifer* (Harris): Cocklemill Marsh, Tentsmuir, = *H.conica*.  
*Hydrophoria linogrisea* (Meigen): Kinkell Braes.  
*Hylemya nigrimana* (Meigen): Aberdour.  
*Hylemya urbica* van der Wulp: Carlingnose, Dumbarnie Links.  
*Hylemya vagans* (Panzer): Aberdour, 1893, as *H.strigosa*; Lundin Links (1929), as *H.strenua*.  
*Hylemya variata* (Fallén): Widespread.  
*Hylemyza partita* (Zetterstedt): Aberdour.  
*Lasiomma picipes* (Meigen): Lundin Links (as *L.octoguttatum*).  
*Lasiomma seminitidum* (Zetterstedt): Kinkell Braes, Lundin Links, = *L.meadei*.  
*Lasiomma strigilatum* (Zetterstedt): I of May, as *Lasiops ctenocnema*, *L.nitidicauda*, *Opsolasia roederi*.  
[*Leucophora grisella* Hennig: Thornton, doubtful, as *Hylemya grisea*.]  
*Mycophaga testacea* (Gimmerthal): Newburn.  
*Paregle audacula* (Harris): Carlingnose, Tentsmuir, = *P.radicum*.  
*Pegomya bicolor* (Wiedemann): Kinkell Braes, Lundin Links; [leaf-miner on *Rumex*].  
*Pegomya flavifrons* (Walker): Lundin Links, as *P.albimargo*.  
*Pegomya haemorrhoum* (Zetterstedt): Kinkell Braes.  
*Pegomya hyoscyami* (Panzer): Kinkell Braes.  
*Pegomya rubivora* (Coquillet): Kinkell Braes, Morton Lochs, reared from *Filipendula*.  
*Pegoplata aestiva* (Meigen): Widespread, = *Nupedia aestiva*.  
*Pegoplata infirma* (Meigen): Dumbarnie Links, Lundin Links, Tentsmuir; = *Nupedia infirma*.  
*Phorbia bartaki* Ackland & Michelsen: Dumbarnie Links.  
*Phorbia fumigata* (Meigen): Carlingnose, Lundin Links; = *P.securis*.  
*Phorbia sepia* (Meigen): Dumbarnie Links, Kinghorn, as *Chortophila sepia*.  
*Subhylemyia longula* (Fallén): Ruddons Point.

### Fanniidae - lesser house-flies

Larvae in manure etc.

*Fannia armata* (Meigen): Cocklemill Marsh, I of May, Newburn.  
*Fannia canicularis* (L.): Widespread.  
*Fannia fuscula* (Fallén): Carlingnose, Kinkell.  
*Fannia genualis* (Stein): Kinkell Braes.  
*Fannia lustrator* (Harris): Tentsmuir.  
*Fannia manicata* (Meigen): Newburn.  
*Fannia mollissima* (Haliday): Widespread.  
*Fannia nigra* Malloch: Tentsmuir.  
*Fannia pallitibia* (Rondani): Mountcastle Quarry.  
*Fannia parva* (Stein): Cocklemill Marsh, Kinkell.  
*Fannia polychaeta* (Stein): Tentsmuir.  
*Fannia postica* (Stein): Widespread.  
*Fannia rondanii* (Strobl): Tentsmuir.  
*Fannia scalaris* (Fabricius): Kinkell Braes.  
*Fannia serena* (Fallén): Cocklemill Marsh, Lundin Links, Tentsmuir.  
*Fannia similis* (Stein): Cocklemill Marsh, Lundin Links.  
*Fannia sociella* (Zetterstedt): Aberdour (pre-1904).  
*Fannia subsimilis* Ringdahl: Lundin Links.

### Muscidae - house-flies etc.



Larvae varied, in dung, compost etc., including the common house fly, *Musca domestica*, now much less common than previously.

*Azelia cilipes* (Haliday): Lundin Links.  
*Azelia nebulosa* Robineau-Desvoidy: Dumbarrie Links.  
*Brontaea humilis* (Zetterstedt): Largo; swarms indoors (as *Gymnodia humilis*).  
*Coenosia albicornis* Meigen: Tentsmuir; (and Aberdour, 1904).  
*Coenosia infantula* Rondani: Lundin Links.  
*Coenosia intermedia* (Fallén): Aberdour, pre-1904.  
*Coenosia mollicula* (Fallén): Dumbarrie Links, Ruddons Point.  
*Coenosia pedella* (Fallén): Cocklemill Marsh, Dumbarrie Links.  
*Coenosia pumila* (Fallén): Tentsmuir.  
*Coenosia rufipalpis* Meigen: Ruddons Point.  
*Coenosia testacea* (Robineau-Desvoidy): Kinkell Braes, Lundin Links.  
*Coenosia tigrina* (Fabricius): Carlingnose, Dumbarrie Links, Ruddons Point.  
*Dexiopsis lacteipennis* (Zetterstedt): Dumbarrie Links, Tentsmuir.  
*Eudasyphora cyanella* (Meigen): Widespread.  
*Graphomya maculata* (Scopoli): Earlshall Muir, Newburn.  
*Hebecnema umbratica* (Meigen): Widespread.  
*Hebecnema vespertina* (Fallén): Widespread, some as *H.affinis* and *Mydaea vespertina*.  
*Helina atricolor* (Fallén): Tentsmuir.  
*Helina calceata* (Rondani): Carlingnose.  
*Helina ciliatocosta* (Zetterstedt): Carlingnose.  
*Helina confinis* (Fallén): Carlingnose.  
*Helina consimilis* (Fallén): Aberdour, 1904.  
*Helina depuncta* (Fallén): Cocklemill Marsh, Lundin Links, Tentsmuir; as *H.laetifica*.  
*Helina evecta* (Harris): Widespread.  
*Helina impuncta* (Fallén): Widespread.  
*Helina lasiophthalma* (Macquart): Carlingnose.  
*Helina latitarsis* Ringdahl: Aberdour (1904), Lundin Links (1929).  
*Helina obscurata* (Meigen): Widespread.  
*Helina protuberans* (Zetterstedt): Dumbarrie Links, Tentsmuir.  
*Helina pubiseta* (Zetterstedt): Tentsmuir; Cowdenbeath, as *Mydaea separata*.  
*Helina quadrum* (Fabricius): Widespread.  
*Helina reversio* (Harris): Widespread, including *H.duplicata*, *H.communis*.  
*Helina setiventris* Ringdahl: Widespread.  
*Helina subvittata* (Séguy): Dumbarrie Links, Tentsmuir; and Inchkeith, as *Hyetodesia marmorata*.  
*Helina trivittata* (Zetterstedt): Ruddons Point, Tentsmuir.  
*Hydrotaea armipes* (Fallén): Cowdenbeath, Tentsmuir.  
*Hydrotaea dentipes* (Fabricius): Widespread on coast.  
*Hydrotaea irritans* (Fallén): Widespread.  
*Limnophora riparia* (Fallén): Larvae in R Leven etc., as *Melanochila riparia*.  
*Lispe pygmaea* Fallén: Tentsmuir.  
*Lispocephala erythrocerata* (Robineau-Desvoidy): Tentsmuir, = *Carisea erythrocerata*.  
*Lophosceles cinereiventris* (Zetterstedt): Dumbarrie Links.  
*Macrorchis meditata* (Fallén): Cocklemill Marsh.  
*Mesembrina meridiana* (L.): Widespread, [larvae in cow-dung].  
*Morellia aenescens* Robineau-Desvoidy: Cowdenbeath.  
*Morellia hortorum* (Fallén): Cocklemill Marsh, Dumbarrie Links, Tentsmuir.  
*Morellia simplex* (Loew): Lundin Links, Tentsmuir.  
*Musca domestica* L.: House fly; Widespread.  
*Muscina levida* (Harris): Dumbarrie Links; larvae in toadstools and dead snails.  
*Muscina stabulans* (Fallén): Indoors.  
*Mydaea ancilla* (Meigen): Tentsmuir.  
*Mydaea corni* (Scopoli): Aberdour, 1904.  
*Mydaea urbana* (Meigen): Cocklemill Marsh, Earlshall.  
*Myospila meditabunda* (Fabricius): Widespread.  
*Neomyia cornicina* (Fabricius): Dumbarrie Links, Lundin Links (as *Orthellia viridis*).  
*Neomyia viridescens* (Robineau-Desvoidy): Is of May, as *Orthellia cornicina*; Aberdour, as *Euphoria cornicina*.  
*Phaonia angelicae* (Scopoli): Aberdour, Kinkell Braes, Mountcastle Quarry.  
*Phaonia errans* (Meigen): Tentsmuir.  
*Phaonia halterata* (Stein): Aberdour, 1904.

*Phaonia incana* (Wiedemann): Widespread.  
*Phaonia palpata* (Stein): Kinkell Braes.  
*Phaonia serva* (Meigen): Dumbarnie Links, Tentsmuir.  
*Phaonia turguriorum* (Scopoli): Indoors.  
*Phaonia valida* (Harris): Earlshall, Ruddons Point.  
*Phaonia zugmayeriae* (Schnabl): Cocklemill Marsh, Lundin Links.  
*Polietes lardarius* (Fabricius): Dumbarnie Links, Tentsmuir.  
*Pseudocoenosia solitaria* (Zetterstedt): Kinkell, L Gelly, Tentsmuir.  
*Schoenomyza litorella* (Fallén): Dumbarnie Links.  
*Spilogona baltica* (Ringdahl): Tentsmuir.  
*Spilogona contractifrons* (Zetterstedt): Lundin Links.  
*Spilogona denigrata* (Meigen): Cowdenbeath.  
*Spilogona marina* (Collin): Kinkell Braes.  
 [*Spilogona septemnotata* (Zetterstedt): Indoors, as *Limnophora septemnotata*; needs confirmation.]  
*Thricops cunctans* (Meigen): Tentsmuir.  
*Thricops longipes* (Zetterstedt): Cocklemill Marsh.  
*Thricops nigrifrons* (Robineau-Desvoidy): Cocklemill Marsh.  
*Thricops nigrifrons* (Zetterstedt): Cowdenbeath, Tentsmuir.  
*Thricops semicinereus* (Wiedemann): Aberdour, Tentsmuir.

### Calliphoridae - blow-flies etc.

*Bellardia viarum* (Robineau-Desvoidy): Dumbarnie Links, Tentsmuir.  
*Bellardia vulgaris* (Robineau-Desvoidy): Kinkell Braes; as *B. agilis*.  
*Calliphora vicina* Robineau-Desvoidy: Widespread, larvae in carrion.  
*Calliphora vomitoria* (L.): Tentsmuir.  
*Cynomya mortuorum* (L.): Widespread, larvae in carrion.  
*Lucilia caesar* (L.): 1 of May, Aberdour.  
*Lucilia sericata* (Meigen): 1 of May, Torryburn.  
*Melanomya nana* (Meigen): Widespread S coast.  
*Pollenia amentaria* (Scopoli): Dumbarnie Links.  
*Pollenia griseotomentosa* (Jacentkovsky): Carlingnose, Tentsmuir; = *P. varia*.  
*Pollenia rudis* (Fabricius): Cluster-fly; Widespread, enters houses in autumn to hibernate, larvae parasitic in earthworms.

### Rhinophoridae

Larvae parasitic in beetles, woodlice etc.

*Melanophora roralis* (L.): 1 of May.  
*Paykullia maculata* (Fallén): Largo, Newburn, Otterston, as *Stevania maculata* and *Parafeburia maculata*.

### Sarcophagidae - flesh-flies

Larvae in carrion.

*Metopia argyrocephala* (Meigen): Tentsmuir.  
*Metopia campestris* (Fallén): Earlshall.  
*Sarcophaga carnaria* (L.): Dumbarnie Links, 1 of May.  
*Sarcophaga crassimargo* Pandellé: Dumbarnie Links.  
*Sarcophaga nigriventris* Meigen: Carlingnose, Dumbarnie Links, Ruddons Point, as *Pierretia nigriventris*.  
*Sarcophaga subvicina* Rohdendorf: Carlingnose.  
*Sarcophaga vagans* Meigen: Tentsmuir, as *Heteronychia vagans*.

### Tachinidae - parasitic flies

Larvae mostly in insects, especially caterpillars.

*Brachicheta strigata* (Meigen): Dumbarnie Links.  
*Carcelia lucorum* (Meigen): Dumbarnie Links, Tentsmuir; parasitic on ruby tiger moth.  
*Dexiosoma caninum* (Fabricius): Falkland, 1895.  
*Eriothrix rufomaculata* (De Geer): Widespread; some as *Olivieria lateralis*.  
*Ernestia rudis* (Fallén): Tentsmuir.  
*Eurithia anthophila* (Robineau-Desvoidy): Inverkeithing, as *Varichaeta radicum*.

*Gonia capitata* (De Geer): Kilconquhar.  
*Gonia ornata* Meigen: Tentsmuir.  
*Gymnocheta viridis* (Fallén): Widespread in east.  
*Linnaemyia vulpina* (Fallén): Thornton.  
*Lydella stabulans* (Meigen): Torryburn.  
*Ocytata pallipes* (Fallén): Dumbarne Links; (plus old record at Aberdour as *Rhacodineura antiqua*).  
*Pelatachina tibialis* (Fallén): Dumbarne Links.  
*Phasia hemiptera* (Fabricius): 'Fife', = *Alophora hemiptera*.  
*Phebellia glirina* (Rondani): Newport.  
*Phryxe nemea* (Meigen): Strathkinness, parasitic on magpie moth caterpillars.  
*Ramonda spathulata* (Fallén): Tentsmuir, as *Wagneria lentis*.  
*Siphona geniculata* (De Geer): Dumbarne Links.  
*Siphona maculata* Staeger: Tentsmuir.  
*Tachina grossa* (L.): Lomonds, Tentsmuir.  
*Tachina ursina* (Meigen): Waterless Wood.  
*Triarthria setipennis* (Fallén): Tentsmuir, [parasitic on earwigs].  
*Voria ruralis* (Fallén): Dumbarne Links, parasitic on caterpillar of plusiine moth.

### **Oestridae - warble-flies**

Parasites in skin of cattle, formerly present in Fife, now apparently extinct; their presence is a notifiable disease.

*Hypoderma bovis* (L.).  
*Hypoderma lineatum* (De Villers).