Survey of the Grassland Fungi of the Vice County of West Cork

David Mitchel

October – November 2007

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Background
This background is essentially the same as that written in 2006 for the Clare Waxcap Survey as it is still relevant. It has been however updated.

Waxcaps have been described as the orchids of the world of fungi. They are often startling in colour from reds, oranges and yellows to whites and browns. They can smell of honey or cedar wood or, less pleasantly, oily or nitrous. They are usually found in grasslands although they can also be found in woods. They are one of the groups of grassland fungi that are now recognised as excellent indicators of ancient unfertilised grassland. Other grassland types are the Entolomas (pink spored gill fungi), the Clavarioids (fairy clubs), Geoglossaceae or earth tongues and species from the smaller genera of Camarophyllopsis, Dermoloma and Porpoloma. They can all be found in a range of grassland types from dunes to uplands, from lowlands to gardens or churchyards. Indeed gardens and churchyards have now often become the last refuge of these species, isolated areas that have been spared the addition of fertilisers and which give us a glimpse on what our natural grasslands once would have looked like. Many species are on national red lists across Europe and Hygrocybe calyptriformis was on the list of fungal species proposed for inclusion onto the Berne Convention in 2003 (Dahlberg 2003) but which did not progress for various political reasons nothing to do with the need to protect fungi. ü

These species are sensitive to the application of artificial fertilisers, especially those containing phosphorus. It may take a considerable time for fertilised sites to be rehabilitated even if managed positively for nature conservation arguably making grassland fungi better indicators of ancient unfertilised grasslands than higher plants.

The great unknown however is just what these species are actually doing in the soil. A recent paper (Griffith, G.W., Easton, G.L. & Jones, A.W. (2002). Ecology and Diversity of Waxcap (Hygrocybe spp.) Fungi. Bot.J.Scotl. 54(1), 7-22) points to some possible answers based on stable isotope analysis. Stable isotopes of Carbon (13C) and Nitrogen (13C) occur naturally and work looking at the patterns of 13C and 13C enrichment in ectomycorrhizal and saprophytic fungi have shown quite different enrichment patterns. Waxcaps, however, appear different to normal saprophytic fungi as they are more depleted in 13C and more enriched in 13N. Clavarioids and Geoglossaceae are even more different, but Entolomas are more typical of saprophytic fungi. This could mean that Hygrocybe spp., Clavarioids and Geoglossaceae could be deep humic decayers rather than normal surface litter decayers.

Assessing site quality from fungal data
The first recognition of grassland fungi in Ireland was a paper by Feehan and McHugh (1992) on the Curragh and since then, interest has been growing as it has been recognised that this unique community is seriously threatened across Europe.

Various systems have been proposed to rank sites for grassland sites for their fungal conservation value. Rald (1985) in Denmark proposed a system based on the number of species of Hygrocybe, Nitare (1988) looked at systems in Sweden, Jordal in Norway (1997) and Rotheroe proposed a system that included a weighted score for rarer species that are restricted to species rich sites. This was further developed by myself and others in McHugh et al (2002) when we proposed a weighted scoring system for Ireland. In this paper we presented a list of the best sites for grassland fungi in Ireland, but no sites in County Clare were included as they had not been surveyed. A three year survey of grassland sites was concluded in Northern Ireland in 2003 in which every 10km square in Northern Ireland was surveyed (see www.nifg.org.uk/waxcaps.htm).
As David Boertmann states in the main guide to Hygrocybe (Boertmann 1995) that varieties should not be counted separately in these counting systems, it is important when using such ranking systems to note the definition of the species you are counting as one person’s species might be another person’s variety and any scoring system should be comparable. For these purposes, the literature quoted on page 5 was that used to define the species concept with the exception of Hygrocybe berkeleyi (Hygrocybe pratensis var. pallida in David Boertmann’s book) was counted as a species. The recent Checklist of the Basidiomycetes of the British Isles (Legon 2005) did list Hygrocybe conicoides as a species rather than Hygrocybe conica var. conicoides but as this is not consistent with David Boertmann’s interpretation, this was not counted separately.

Aims of this project

The main aim of this survey was to provide a baseline of information for the vice county of West Cork. This would be done by covering at least 12 sites in at least 10 different 10km squares over a two week period between 28/10/07 and 11/11/07. From experience, this is usually the best period for fruiting for grassland fungi in Ireland as this group always fruits later than woodland fungi. The 2006 survey in Clare was done a week earlier if comparing direct dates and the feeling then was that the survey was slightly too early for the peak fruiting period which is always impossible to predict. The target group of species were the Waxcaps (genus Hygrocybe), the non-woodland Fairy Clubs (Clavariaceae), the Pink gills (Entolomaceae), the earth tongues (Geoglossaceae) and the genera Camarophyllopsis, Dermoloma and Porpoloma. These species would be thoroughly searched for.

The data collected was to be compared with the Northern Ireland data as well as recent GB data to provide a British Isles context for the West Cork sites. This data and interpretation would also feed into the National Biodiversity Information Centre. All images collected during this survey are available for unlimited use on for the Heritage Council or the National Biodiversity Information Centre.

An additional aim was to provide more data from the Republic of Ireland to refine the Irish scoring system which is based heavily on data from Northern Ireland.

The Vice County of West Cork

The vice county of West Cork includes all the areas of County Cork west of a straight line drawn from Bandon to Macroom and then to Millstreet. The eastern half is mainly rolling hills dominated by agricultural grassland but the western half has significant areas of upland dominated by blanket bog, wet heath and upland grassland including the Caha Mountains of the Beara peninsula and Shehy Mountains. The finger like peninsulas and the numerous coastal islands of the west are often dominated by heath. Sand dunes systems are scattered compared to other parts of the west coast of Ireland. Geologically, it is dominated by the acid Old Red Sandstone series and Carboniferous shales in the south. Limestone is a very rare resource.

Methodology

Local Conservation Rangers were contacted before or during the survey for information on known sites. Clare Heardman from Glengarriff Woods Nature Reserve in particular was extremely helpful and took me out to sites in the Glengarriff area which I otherwise would not have visited.
The 1:50,000 maps were studied as were aerial photographs available on the NPWS website. The most promising target squares and possible sites within each were identified. The sites were chosen due to information provided by local knowledge, my own personal knowledge of the sites, impressions gained by studying the maps and aerial photographs and also ease of access. In many squares, there were no obvious sites as the squares were dominated by agricultural grassland, but in such squares, churchyards are well known as refugia for grassland fungi as there is often no requirement (or funding) to fertilise the lawns.

Each site was visited for as long as was necessary. Whilst the target groups were searched for as priority, all species of fungi encountered were recorded. However many of these latter records were of a casual nature and many of the species maps produced for these species are very unrepresentative as they were only recorded if seen and were often not searched for.

When notable species were found, specimens were taken for microscopical examination. Herbarium specimens were dried on a continental fruit drier and are being passed to the National Botanic Gardens in Glasnevin as well as the Royal Botanic Gardens in Kew. The target species are listed in the Species Reports.

The literature used to identify the grassland target groups were as follows:


Results

Weather and Fungal Fruiting

The fruiting of fungi is particularly affected by weather. Fruiting requires moisture but too much rain can hinder fruiting. Containing so much moisture, fungi can be hit badly by frosts but on the other hand, early frosts in October and early November seem to quickly initiate a new batch of fruiting of waxcaps as long as the frosts do not continue for a long period of time. Although some species of waxcaps can fruit in July (even June), the main flush is usually in late October and early November. In coastal areas in Ireland, the fruiting period can continue through December even into January due to the infrequency of frosts. Entolomas are known to generally fruit earlier than waxcaps and earth tongues are probably the latest of all, often not appearing at all until November on some sites.

2007 was a particularly strange year weather wise and this was very much echoed by strange patterns of fungal fruiting in the British Isles. Warm dry weather in April was followed by extremely wet weather in May, June and July. Waxcaps were recorded fruiting often in large numbers in June and July in Wales. This was followed by a very dry September (an usually poor month mycologically) and with some rainfall in October which was very mild. As long term studies in Switzerland have shown that fruiting is strongly related to temperatures dropping below 14°C and to precipitation and that fungi often fruit about two
weeks after significant rainfall (Straatsma 2001), this October rainfall was needed very much. The actual survey period of 28/11/07 to 11/11/07 was marked by mild and very dry weather with only one morning in the whole two week period with rain. It was notable that the ground on many sites was often very dry but at least fruiting was generally reasonable. It was also notable that one site, St. Matthew’s Church of Ireland in Baltimore was visited twice (31/10/07 and 10/11/07) and whilst the first visit only recorded 6 species of waxcap, the second had 12 species. Thus fruiting was improving as time progressed. There is however always a fine line between late fruiting and early frosts and while luckily these did not overlap during this survey, in some years, fruiting can be seriously hindered.

Summary Results

The original plan was to visit at least twelve 10km squares and it was estimated that the mileage during the two weeks would be 400 miles. In the end, 36 10km squares were visited and 954 miles were covered. Whilst the sites visited in a number of the squares were small churchyards, this was done either because these were the only likely sites in that square and/or these were the only sites that were easily accessible. Lack of time meant that sites with difficult access that needed knocking on doors to get access permission were rarely visited. I also used a species list from an earlier visit in 2002 to the Eyeries area but this was the only site list used from my own existing dataset.

Table 1 compares number of species found with than in Clare in 2006. The figures quoted do not include the varieties.

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<tr>
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<th>West Cork 2007</th>
<th>Clare 2006</th>
<th>All Ireland to date</th>
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<tbody>
<tr>
<td>Waxcaps (Hygrocybe)</td>
<td>29</td>
<td>23</td>
<td>40</td>
</tr>
<tr>
<td>Clavarioid (Fairy Clubs)</td>
<td>10</td>
<td>10</td>
<td>16</td>
</tr>
<tr>
<td>Entolomaceae</td>
<td>20</td>
<td>12</td>
<td>66</td>
</tr>
<tr>
<td>Geoglossaceae (Earth tongues)</td>
<td>3</td>
<td>5</td>
<td>11</td>
</tr>
<tr>
<td>Other grassland target species</td>
<td>2</td>
<td>2</td>
<td>6</td>
</tr>
<tr>
<td>Total species</td>
<td>206</td>
<td>155</td>
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*Camarophyllopsis, Dermoloma, Porpoloma

Table 1 Number of Species found in West Cork and Clare

It can be seen that a greater range of species was found in West Cork than in Clare. It is also noticeable that less Geoglossaceae (late species) were recorded but more Entolomaceae (early species) were recorded. This was despite the survey period being a week later than in Clare and is consistent with the idea that fruiting was delayed by at least two weeks due to the 2007 weather patterns compared to more “normal” years.

In terms of sites, three excellent sites were found (Dursey Island, Ballynacarriga and Bantry House lawns) and in terms of the numbers of waxcaps found in a single visit, these sites rank amongst some of the best in Ireland. Whilst Dursey Island would now be the joint 11th best site in Ireland (see Table 2), most of the other sites have been visited on more occasions and only Aghadachor in Donegal has more species recorded in a single visit (19).

Apart from these three sites, good sites were hard to find. Churchyards turned out again to be a very important resource and some excellent ones were found. The All Saints Church in Drimoleague featured the rare waxcap, Hygrocybe ovina, the first time it has been found in a churchyard in Ireland. Drimoleague Church of Ireland, St. Matthew’s Church of Ireland in Baltimore and Lisheen Lower RC Church were all notable sites. Letters have been written to all these sites describing these finds along with a leaflet produced by Plantlife.
This does not necessarily mean that West Cork is significantly better for grassland fungi than County Clare as these two surveys were in essence “snapshot” surveys. The fact that the best churchyard in Clare only had 4 waxcaps whilst the best in West Cork had 12 does indicate that the West Cork survey was during a better fruiting spell.

This survey did find 3 new Irish records as reported below and 147 of the 206 species recorded have no records for West Cork in the Fungus Records Database for the British Isles (FRDBI - http://194.203.77.76/fieldmycology/FRDBI/FRDBI.asp) or are listed in Muskett & Malone from West Cork. Table 2 lists these species. Whilst many of these are very common species, it just illustrates how under recorded this vice county is.

**Notable Finds**

**New Irish Records**

There are no published records, notes as occurring in Ireland in the Checklist of the British & Irish Basidiomycota (Legon 2005) or records in the Fungus Records Database for the British Isles (FRDBI) hosted by the British Mycological Society for the following species:

**Hebeloma fusisporum** Gröger & Zschiesch.

Only two records in the FRDBI from Orkney and Hampshire. Not a grassland species but found under Alder in the Glengarriff National Nature Reserve alongside the river (30/10/07: V915566). Had a very strong sweet smell.

**Hebeloma helodes** J. Favre

Also found in woodland at Glengarriff National Nature Reserve between the carpark and the Big Meadow (30/10/07: V915566), this species is marked by non-dextrinoid spores and a thin stipe. 24 records in the FRDBI but none from Ireland. Possibly previously overlooked and recorded as *H.crustiliniforme*.

**Stropharia halophila** Pacioni

Found under *Ammophila arenarium* in the yellow dunes at Creggane Strand near Rosscarberry (09/11/2007: 09/11/2007). Noted by its yellow cap colours, dark spore print, ring on the stem and microscopically by its large spores (too large for *S.coronilla*) and striking clavate cheilocystidia. Only two records in the FRDBI from West Norfolk and West Devon.
Other Notable Records – Target Species

**Clavaria straminea** Cotton
A striking straw coloured Fairy Club with a dark yellow base to the stipe. Rarely recorded in Ireland but in GB, can be common in particular years and then rarely seen in subsequent years. Found at Big Meadow, Glengarriff National Nature Reserve (30/10/07: V915566); Bantry House (30/10/07: V987483), Kilcrohane Church (05/11/2007: V820379) and Goughane Barra (08/11/2007: W092661).

**Entoloma bloxamii** (Berk.) Sacc.
**Entoloma hispidulum** (M. Lange) Noordel.
A striking *Entoloma* with a very fibrillose cap. Found at Barley Cove in dune grassland (04/11/2007: V766255) and Sheep’s Head in heath (05/11/2007: V720337).

**Entoloma longistriatum var. sarcitulum** (Kühner & Romagn. ex P.D. Orton) Noordel.
An interesting brown Leptonia which proved to be one of the most common Leptonia species in this survey. This variety is noted by its fertile gill edge that is sometimes brown, polished brown stem and brown striate cap. When young, the colour of this variety can be a very lush yellow brown colour and I wonder what DNA work would think of the group *E.longistriatum, E.ochromicaceum* and *E.xanthochroum*.

**Hygrocybe calciphila** Arnolds
One of the rarer waxcaps seemingly confined to calcareous sites including sand dunes. Found at Inchydoney Island (03/11/2007: W408398) and Barley Cove (04/11/2007: V766255).

*Hygrocybe calyptriformis* (Berk. & Broome) Fayod
The flagship species of waxcap that is totally unmistakable. A UK BAP species and one of the 33 species proposed for the Berne List. Not found in Clare but recorded three times in West Cork at Bantry House (30/10/2007: V987483), Kilcrohane Church (05/11/2007: V820379) and Goughane Barra (08/11/2007: W092661).

*Hygrocybe citrinovirens* (Lange) Jul. Schäff.
A large attractive lemon yellow waxcap. Not recorded from Clare but it is often one of the earlier waxcaps in the season. Recorded at Bantry House (30/10/2007: V987483).

*Hygrocybe ovina* (Bull.) Kühner
One of the rarest waxcaps in Ireland and one of Northern Irelands Priority Species. Recorded from the All Saint’s Church in Drimoleague (03/11/2007: W127461).
**Porpoloma metapodium** (Fr.) Singer
A large distinctive species that has amyloid spores, a blackening fruitbody that smells strongly of flour. Recorded from Bantry House (30/10/2007: V987483). Only very scattered records in Ireland.

**Ramariopsis kunzei** (Fr.) Corner

Other Notable Records – non-Target Species

**Agaricus bernardii** Quél.
**Agrocybe pediades** (Fr.) Fayod
Very few records from Ireland but probably overlooked. Recorded from Park, Hungry Hill (02/11/2007: V753486).

**Conocybe pubescens** (Gillet) Kühner

**Cordyceps capitata** (Holmsk.) Link
**Laccaria fraterna** (Cooke & Massee) Pegler
Only recently recorded in Ireland, this is the first record from the Republic of Ireland. This is an Australian species found under Eucalyptus and is spreading in Europe. Distinguished from other *Laccaria* look-alikes by being two spored. Recorded from Schull RC Church (04/11/2007: V928316).

**Lactarius lacunarum** Romagn. ex Hora
Not a rare species but this association with *Salix repens* in coastal heath is unusual. Also recorded from this habitat in Clare and the Giant’s Causeway and in GB, from Scotland (Eigg, West Sutherland, Outer Hebrides, Orkney and Shetland). Recorded from Brow Head (04/11/2007: V770233) and Sheep's Head (05/11/2007: V720337).

**Leucoagaricus leucothites** (Vittad.) M.M. Moser ex Bon
Only very scattered records from Ireland, all from coastal areas. Also recorded from Clare, this was found at Inchydoney Island (03/11/2007: W408398).
**Omphalina subhepatica** (Batsch) Murrill
Only recorded from West Mayo in Ireland, this species was recorded from coastal dunes at Garranefeen Strand (03/11/2007: W534446), Inchydoney Island (03/11/2007: W408398) and Barley Cove (04/11/2007: V766255).

**Peziza ammophila** Durieu & Mont
A very distinctive discomycete found in embryo dunes with a stalk buried in the sand. Only three other records for Ireland. Recorded from Inchydoney Island (03/11/2007: W408398) and Barley Cove (04/11/2007: V766255).
**Tulostoma brumale** Pers.
Scattered records around the Irish coast. It is actually quite small and can be mistaken for dried rabbit pellets! Also recorded from Rine Point in Clare. Found at Creggane Strand (09/11/2007: W295363).

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**Notable Absentees**

In terms of waxcaps, the notable absentees were the species more typical of calcareous grassland, notably *Hygrocybe colemanii*ana and *H.mucronella*. These were both found in Clare and due to the geology of West Cork, it was not a surprise not to find them.

The most notable non-waxcap absentee was the brown earth tongue, *Microglossum olivaceum*. A Biodiversity Action Plan species in the UK, this is noted by its colour (although variable from brown to blue-green), it is not black like most earth tongues and is very different under the microscope.

**New Vice County Records**

As stated above, species are listed here if there are no records for these species for West Cork in the FRDBI ([http://194.203.77.76/fieldmycology/FRDBI/FRDBI.asp](http://194.203.77.76/fieldmycology/FRDBI/FRDBI.asp)) or in Muskett and Malone (1980).

<table>
<thead>
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<td><em>Agaricus dulcidulus</em></td>
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<td><em>Agaricus impudicus</em></td>
<td>(Rea) Pilát</td>
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<tr>
<td><em>Agaricus urinascens</em></td>
<td>(F.H. Møller &amp; Jul. Schäff.) Singer</td>
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<tr>
<td><em>Agrocybe pediades</em></td>
<td>(Fr.) Fayod</td>
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<td><em>Aleuria aurantia</em></td>
<td>Peck</td>
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<td><em>Armillaria gallica</em></td>
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<td><em>Armillaria mellea</em></td>
<td>(Vahl) P. Kumm.</td>
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<td>Species</td>
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<td><em>Ascocoryne sarcoides</em></td>
<td>(Jacq.) J.W. Groves &amp; D.E. Wilson</td>
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<td><em>Bolbityus vitellinus</em></td>
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<td><em>Calocybe carnea</em></td>
<td>(Bull.) Donk</td>
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<td><em>Daldinia concentrica</em></td>
<td>(Bolton) Ces. &amp; De Not.</td>
</tr>
<tr>
<td><em>Dermoloma cuneifolium var. cuneifolium</em></td>
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</tr>
<tr>
<td><em>Elaphomyces granulatus</em></td>
<td>Fr.</td>
</tr>
<tr>
<td><em>Entoloma asprellum</em></td>
<td>(Fr.) Fayod</td>
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<tr>
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<td>Noordel.</td>
</tr>
<tr>
<td><em>Entoloma bloxamii</em></td>
<td>(Berk.) Sacc.</td>
</tr>
<tr>
<td><em>Entoloma chalybea var. chalybea</em></td>
<td>(Pers.) Noordel.</td>
</tr>
<tr>
<td><em>Entoloma conferendum</em></td>
<td>(Birzelm.) Noordel.</td>
</tr>
<tr>
<td><em>Entoloma elodes</em></td>
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<tr>
<td><em>Entoloma exile</em></td>
<td>(Fr.) Hesler</td>
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<td>(Fr.) Hesler</td>
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<tr>
<td><em>Entoloma infula</em></td>
<td>(Arnolds &amp; Noordel.) Noordel.</td>
</tr>
<tr>
<td><em>Entoloma jubatum</em></td>
<td>Fr.</td>
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<tr>
<td><em>Entoloma poliopus var. poliopus</em></td>
<td>(Romagn.) Noordel.</td>
</tr>
<tr>
<td><em>Entoloma prunuloides</em></td>
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<td><em>Entoloma rhodopolium var. nidorosum</em></td>
<td>(Fr.) Noordel.</td>
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<tr>
<td><em>Entoloma sericeum</em></td>
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<td>Species</td>
<td>Authority</td>
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<td>(Curtis) Singer</td>
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<td>Handkea excipuliformis</td>
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<td>Hygrocybe aurantiosplendens</td>
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<td>Hygrocybe calyptriformis</td>
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<td>(J.E. Lange) R. Haller Aar.</td>
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<td>Hygrocybe ovina</td>
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<td>Lycoperdon pyriforme</td>
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<td>(Schaeff.) M.M. Moser</td>
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<td>Species</td>
<td>Authority</td>
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<td>Melanoleuca cinereifolia</td>
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<td>Melanoleuca excissa</td>
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<tr>
<td>Melanoleuca polioleuca f. polioleuca</td>
<td>(Fr.) Kühner &amp; Maire</td>
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<td>Micilago crustacea</td>
<td>Mich.</td>
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<td>Mycena adonis var. adonis</td>
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<td>Mycena epiphygia var. epiphygia</td>
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<td>Mycena galericulata</td>
<td>(Scop.) Schaeff.</td>
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<td>Mycena pura var. pura</td>
<td>(Pers.) P. Kumm.</td>
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<td>Octospora humosa</td>
<td>(Fr.) Dennis</td>
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<td>(Bull.) M. Lange</td>
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<tr>
<td>Omphalina subhepatica</td>
<td>(Batsch) Murrill</td>
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<td>(Schaeff.) Gillet</td>
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<td>Peziza ammophila</td>
<td>Durieu &amp; Mont.</td>
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<td>Pholiota squarrosa</td>
<td>(Weigel) P. Kumm.</td>
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<td>Phragmidium violaceum</td>
<td>(Schultz) G. Winter</td>
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<td>Pleurotus ostreatus</td>
<td>(Jacq.) Quél.</td>
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<td>Porpholoma metapodium</td>
<td>(Fr.) Singer</td>
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<tr>
<td>Postia subcaesia</td>
<td>(David) Jülich</td>
</tr>
<tr>
<td>Psathyrella ammophila</td>
<td>(Durieu &amp; Lév.) P.D. Orton</td>
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<td>Psilocybe semilanceata</td>
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<td>Ramariopsis kunzei</td>
<td>(Fr.) Corner</td>
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<td>Rhopographus filicinus</td>
<td>(Fr.) Nitschke ex Fuckel</td>
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<td>Rhytisma acerinum</td>
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<td>Rickenella fibula</td>
<td>(Bull.) Raithelh.</td>
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<tr>
<td>Rickenella swartzii</td>
<td>(Fr.) Kyuper</td>
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<td>Russula mairei</td>
<td>Singer</td>
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<td>Russula nigricans</td>
<td>(Bull.) Fr.</td>
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<tr>
<td>Russula ochroleuca</td>
<td>(Pers.) Fr.</td>
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<tr>
<td>Russula praetervisa</td>
<td>Sarnari</td>
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<td>Russula sanguinea</td>
<td>(Bull.) Fr.</td>
</tr>
<tr>
<td>Schizophyllum commune</td>
<td>(L.) Fr.</td>
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<td>Stropharia aeruginosa</td>
<td>(Curtis) Quél.</td>
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<td>Stropharia caerulea</td>
<td>Kreisel</td>
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<td>Stropharia halophila</td>
<td>Pacioni</td>
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<tr>
<td>Stropharia pseudocyanea</td>
<td>(Desm.) Morgan</td>
</tr>
<tr>
<td>Suillus grevillei</td>
<td>(Klotzsch) Singer</td>
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<td>Thelephora penicillata</td>
<td>Fr.</td>
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<tr>
<td>Tremella mesenterica</td>
<td>Retz.</td>
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<tr>
<td>Trichoglossum hirsutum</td>
<td>(Pers.) Boud.</td>
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<tr>
<td>Tricholoma ustale</td>
<td>(Fr.) Quél.</td>
</tr>
<tr>
<td>Tricholomopsis rutilans</td>
<td>(Schaeff.) Singer</td>
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<tr>
<td>Tulostoma brumale</td>
<td>Pers.</td>
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<tr>
<td>Xylaria hypoxylon</td>
<td>(L.) Grev.</td>
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</tbody>
</table>

Table 2: New Vice County records for West Cork
Both the total 10km squares and individual sites were ranked according to numbers of species of *Hygrocybe* and the individual sites were also ranked according to their Irish Score. Map 1 shows the distribution of the 10km squares surveyed and the number of species of *Hygrocybe* found in each square. Appendix 1 gives full 10km and site species lists.

It must be noted that varieties are not counted separately so while in the species lists, there may be more than one variety of say *Hygrocybe virginia* or *Hygrocybe conica* is listed, it was only counted once in the list.

### Table 3: 10km Squares Ranked by Number of species of *Hygrocybe*

<table>
<thead>
<tr>
<th>Rank</th>
<th>10k</th>
<th>Site</th>
<th>Hygrocybe</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>V54</td>
<td>Ballynacarriga, eastern end of Dursey Island</td>
<td>18</td>
</tr>
<tr>
<td>2</td>
<td>V94</td>
<td>Bantry House, St. Finbarr’s Roman Catholic Church (Bantry)</td>
<td>17</td>
</tr>
<tr>
<td>3</td>
<td>V43</td>
<td>Dursey Island (west)</td>
<td>14</td>
</tr>
<tr>
<td>3</td>
<td>V95</td>
<td>Big Meadow (Glengarriff National Nature Reserve), Glengarriff Cemetery, Glengarriff Cemetery, Glengarriff Castle</td>
<td>14</td>
</tr>
<tr>
<td>3</td>
<td>W14</td>
<td>Drimoleague churches</td>
<td>14</td>
</tr>
<tr>
<td>6</td>
<td>V83</td>
<td>Toormore C of I, Ahakista Air Memorial, Farranamagh Lough, Kilcrohane Church</td>
<td>13</td>
</tr>
<tr>
<td>6</td>
<td>W02</td>
<td>St. Matthew’s C of I (Baltimore), Baltimore Beacon, Knockomagh Wood Nature Reserve</td>
<td>13</td>
</tr>
<tr>
<td>8</td>
<td>V65</td>
<td>Eyeries Coast</td>
<td>12</td>
</tr>
<tr>
<td>9</td>
<td>V44</td>
<td>Dursey Island (central)</td>
<td>11</td>
</tr>
<tr>
<td>9</td>
<td>W03</td>
<td>Corravoley, Kilcoe Burial Ground, Reen Point, Church Cross CofI, Lisheen Lower RC Church, Aghadown RC Church</td>
<td>11</td>
</tr>
<tr>
<td>9</td>
<td>W06</td>
<td>Goughane Barra, Goughane Barra Forest Park</td>
<td>11</td>
</tr>
<tr>
<td>12</td>
<td>V85</td>
<td>Lackavane</td>
<td>10</td>
</tr>
<tr>
<td>12</td>
<td>W23</td>
<td>Union Hall RC Church, Union Hall Church of Ireland, Leap RC Church, Rossscarbery Church of Ireland, Creggane Strand</td>
<td>10</td>
</tr>
<tr>
<td>14</td>
<td>W26</td>
<td>Inchigeelagh Church</td>
<td>9</td>
</tr>
<tr>
<td>14</td>
<td>W33</td>
<td>Castlefreke Dunes, St. Michaels Church (Rathberry)</td>
<td>9</td>
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</tbody>
</table>

Map 1 below shows that there is not a strong spatial pattern of good squares for grassland fungi. Whilst the Beara peninsula was the best area overall, good squares are well scattered over the vice county with the east being less interesting. This lack of a spatial pattern is actually because good semi-natural sites were hard to find and with churchyards providing many of the good sites, these are much more hit and miss spatially depending on site management rather than environmental variables. This however in turn indicates just how widespread grassland species once were before agricultural intensification. The churchyards have become the last refugia in many areas.
Map 1: 10km squares visited with number of species of Hygrocybe
Table 4: Sites Ranked by Number of species of Hygrocybe in West Cork and Clare

<table>
<thead>
<tr>
<th>Rank</th>
<th>Site</th>
<th>West Cork</th>
<th>Irish Score</th>
<th>Site</th>
<th>Clare</th>
<th>Irish Score</th>
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<tr>
<td>1</td>
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<td>V43</td>
<td>18</td>
<td>Black Head</td>
<td>M11</td>
<td>16</td>
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<tr>
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<td>Bantry House</td>
<td>V94</td>
<td>17</td>
<td>Turlough Hill</td>
<td>M20</td>
<td>13</td>
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<tr>
<td>3</td>
<td>Ballynacarriga</td>
<td>V54</td>
<td>17</td>
<td>Doomore</td>
<td>M30</td>
<td>12</td>
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<tr>
<td>4</td>
<td>Eyeries Coast</td>
<td>V65</td>
<td>12</td>
<td>Tullycomman, Carran</td>
<td>R29</td>
<td>11</td>
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<tr>
<td>4</td>
<td>St. Matthew's C of I, Baltimore</td>
<td>W02</td>
<td>12</td>
<td>Cliffs of Moher</td>
<td>R09</td>
<td>11</td>
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<tr>
<td>6</td>
<td>Goughane Barra</td>
<td>W06</td>
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<td>7</td>
<td>Lackavane</td>
<td>V85</td>
<td>10</td>
<td>Carrickmacnaghten</td>
<td>M10</td>
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<td>8</td>
<td>Drimoleague Church of Ireland</td>
<td>W14</td>
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<td>Fahee North</td>
<td>M30</td>
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<td>Lisheen Lower RC Church</td>
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<td>Q74</td>
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<td>W14</td>
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<td>M10</td>
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<td>11</td>
<td>Inchigeelagh Church</td>
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<td>Bridge of Ross</td>
<td>Q75</td>
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<td>11</td>
<td>Kilcrohane Church</td>
<td>V83</td>
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<td>Mullagh More</td>
<td>R39</td>
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<tr>
<td>13</td>
<td>Big Meadow, Glengarriff National Nature Reserve</td>
<td>V95</td>
<td>9</td>
<td>George's Head</td>
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<td>Fanore dunes</td>
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<tr>
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<td>W02</td>
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<td>Pass of Keimaneigh</td>
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</table>

1 All sites with 5 or more species of waxcap included.
Table 4 shows that a wider range of sites with 7 or more species were found in West Cork than in Clare in 2006. However, Rald (1985) estimates that any site with more than 11 species of Hygrocybe in one visit is of national importance and while this is probably on the low side for the British Isles, this would mean only 6 sites of potentially of high value for grassland fungi have been found so far in West Cork.

Newton et al (2002) in Scotland found that only 25% of species recorded on grassland sites in intensively surveyed sites were found in one visit. This is not true for *Hygrocybe* alone in Ireland taking the example of Binevenagh NNR in Co. L'Derry is the best recorded site in Ireland. A total of 23 species of *Hygrocybe* has been recorded there and the most recorded in one visit has been 16 species, but it illustrates the point that repeated surveying at differing times of year is actually required before a full picture is understood. Given this and the lack of mycologists or amateur recorders in Ireland, the Irish scoring system was proposed by McHugh et al in 2002. One of the benefits of this system is that sites which where indicator species have been recorded stand out and can be targeted for further visits compared to more average sites. Sites such as All Saints Church, Drimoleague, Union Hall RC Church and St. Michaels Church, Rathbarry can be quickly seen in Table 2.

Another aspect that was very different between West Cork and Clare was that the West Cork churchyards supported many more fungi than in Clare. The best churchyard was St. Matthew’s C of I, Baltimore with 12 species of *Hygrocybe* whereas in Clare, the best churchyard only had 4 species. The Clare churchyards will be better than was found in that particular two week period and it further illustrates that that survey was unlucky in terms of coinciding with a fruiting period.

Two particular grassland types were surprisingly poor in this survey. They were upland acid grassland sites and coastal sand dunes. Upland acid grassland sites are often the best sites with waxcaps in particular sometimes fruiting in huge quantities, a biomass that is often not found on calcareous grasslands (with their often thinner soils??). Some very promising sites like Park on Hungry Hill, Lackavane, Goughane Barra and the Healy Pass were poor but had the “feel” of good sites. The only comments that could be made from these sites were that the specimens of the large bulky species like *H.pratensis, H.punicea* or *H.splendidissima* were often very small and this combined with the lack of Geoglossaceae suggests that the main fruiting was still to happen. These sites in particular should be visited again and other sites to the west of the Healy Pass also looked promising.

That coastal sand dunes were poor for waxcap diversity was less of a surprise as few sand dune sites in Ireland are particularly good. Biomass may however be large with huge quantities of *H.conica* (var. *conicioides*), *H.persistens* or *H.virginia*, but a range of notable records of non-target species were made including *Stropharia halophila, Tulostoma brumale, Peziza ammophila, Omphalina subhepatica* and *Leucoagaricus leucothites* were made.
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Table 5: Top Irish Grassland sites as of 01/12/07
What do good grassland fungi sites look like? To give some examples, photographs of some of the good sites in West Cork are shown below.

Dursey Island, eastern corner

Lackavane

Dursey Island, western end

Ballynacarriga

Healy Pass

Barley Cove
Species Rankings

The grassland target species were ranked according to the number of 10km squares in which they were found and compared to their rank in Clare and Northern Ireland. The species in the Irish scoring system are ranked in three categories with 4 points given to the category A species (the best indicators), 2 points to the B species and 1 point to the C species. If a species has no score, it is not included in the present scoring.

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**Table 6: Grassland target species recorded in West Cork**

The noticeable features of this list when compared to the Clare and all Ireland data are:

- the earth tongues were not found as much as elsewhere but this has already been discussed
- *Hygrocybe flavipes* was more common here than elsewhere
• The Fairy Clubs, *Clavulinopsis helvola* and *C.luteoalba* although common elsewhere were relatively more common in West Cork in this survey
• That a number of species of *Entoloma* e.g. *Entoloma poliopus var. poliopus*, *Entoloma chalybaeum*, *Entoloma longistriatum var. sarcitulum* and *Entoloma corvinum* amongst others were recorded more commonly than elsewhere but this can simply be due to this group being badly underrecorded in Ireland.
• In terms of the Irish weighting score, again questions have to rise about *Hygrocybe quieta* and *H.punicea*. These records will be added to the dataset needed to review the weighting system. When this is done, a more detailed analysis looking at the species groupings that the species are recorded with needs to be looked at rather than a simple look at number of 10km squares.

**Comparisons to other areas**
The good sites found in this survey (Dursey Island, Bantry House and Ballynacarriga) are all in the best 10 sites in the Republic of Ireland and with more visits should be prove to be even better. Only the Curragh (Kildare), Ballyprior (Laois), Aghadachor (West Donegal) are better than Dursey Island. In general however, Irish sites are not as good as Welsh or Scottish sites where 20+ species of *Hygrocybe* are not uncommon. For instance, when the author surveyed sites for the Welsh Waxcap survey, 7 out of the 10 sites surveyed all scored higher than Dursey although these were targeted visits rather than having to search for sites. An extremely useful exercise would be to compare such results over Europe as a whole to put these results in a European context. Published literature does suggest that the British Isles has some of the best sites for grassland fungi left in Europe and it would be expected that with further visits, these three sites would prove to have at least 22 species of *Hygrocybe* which would make these sites of international importance ((Vesterholt 1999).

**Conclusions**
Three exceptional sites were found for grassland fungi, sites that rank among the best in Ireland if sites are compared on one site visit alone. However, other semi-natural grassland sites were very hard to find possibly because the survey did not coincide with the peak fruiting period (see discussion about upland acid sites on the Beara on page 23) and because the extension of intensive agriculture into the upland and coastal areas means that the transition between agricultural grassland and heath / bog or the coast is very sharp squeezing out the areas of interest for grassland fungi. The fact that churchyards dispersed across the vice county were good for waxcaps shows how widespread these species once were and how much they have declined. Although waxcaps can be found in virtually all 10km squares, they must once have been ubiquitous. The Epynt ranges in mid-Wales is an area owned by the military since 1938. It is now an incredible place for grassland fungi having been spared agricultural improvement. The biomass of fungi is staggering and over 30 species of waxcap alone have been found. This is probably what most of the uplands of the British Isles once looked like.

As waxcaps are so bright and colourful, they are eye catching species. Being indicators of old unfertilised grassland, they can be a very useful group to involve the public and other non-mycologists with. In 2002, Plantlife organised a survey of *Hygrocybe calyptriformis* in the UK which was very successful and a similar project could be done in Ireland as a whole.

**Images**
All images of species that were taken in this survey can be used by any interested organisation for conservation purposes. These images and many others are available at [www.nifg.org.uk/photos.htm](http://www.nifg.org.uk/photos.htm).
**Acknowledgements**

Thanks must go to Clare Heardman, Conservation Ranger at Glengarriff Woods Nature Reserve for taking me out to sites in the Glengarriff area and for giving local advice on sites and access.

The financial support of the Heritage Council is also gratefully acknowledged as without this, this survey would not have been possible and I can only hope that it helps to raise awareness of this wonderful group of fungi and this beautiful county.

**Bibliography**


Appendix 1 – 10km and Site Details

V43

Sites Searched: Dursey Island

Hygrocybe: 14  Clavariaceae 2  Entolomaceae: 4  Geoglossaceae: 0  Others: 1

The fields at the western end of the island are less fertilised and these proved to be very rich in waxcaps with *H. punicea* and *H. splendidissima* found here. The interest was however continual on this exceptional island.

Grassland Target Species Recorded

- Clavulinopsis helvola
- Clavulinopsis luteoalba
- Entoloma conferendum
- Entoloma longistriatum var. sarcitulum
- Entoloma poliopus var. poliopus
- Entoloma prunuloides
- Hygrocybe cantharellus
- Hygrocybe ceracea
- Hygrocybe chlorophana
- Hygrocybe coccinea
- Hygrocybe conica var. conica
- Hygrocybe insipida
- Hygrocybe laeta var. laeta
- Hygrocybe pratensis
- Hygrocybe psittacina var. psittacina
- Hygrocybe punicea
- Hygrocybe reidii
- Hygrocybe russocoriacea
- Hygrocybe splendidissima
- Hygrocybe virginea var. virginea
- Dermoloma cuneifolium var. cuneifolium

Site Details:

Site: Dursey Island

Date Visited: 06/11/2007  GridRef: V480410

H: 18  C: 6  E: 7  G 0  O: 1  IrishScore: 34

An exceptional island with significant areas of acid grassland and coastal heath. The waxcap interest is best on the tightly grazed grasslands by the sea or surrounding the farms. The heath is of lesser interest. The island illustrates one of the problems of defining a waxcap site. In reality, the interest is continual from one end to the other so dividing it into subsites is artificial. The same could probably be said for the end of the mainland as the waxcap interest is bound to continue from Ballynacarriga to Ballaghboy and Garinish. Notable species include *Entoloma bloxamii*, *Hygrocybe nitrata*, *H. splendidissima* and *Clavaria fragilis*.

*Agaricus bernardii*
*Agaricus impudicus*
*Agaricus urinascens*
*Collybia dryophila*
*Dermoloma cuneifolium var. cuneifolium*
*Entoloma bloxamii*
*Entoloma conferendum*
*Entoloma longistriatum var. sarcitulum*
Entoloma poliopus var. poliopus
Entoloma prunuloides
Entoloma sericeum
Entoloma serrulatum
Hygrocybe cantharellus
Hygrocybe ceracea
Hygrocybe chlorophana
Hygrocybe coccinea
Hygrocybe conica var. conica
Hygrocybe glutinipes var. glutinipes
Hygrocybe insipida
Hygrocybe laeta var. laeta
Hygrocybe miniata
Hygrocybe nitrata
Hygrocybe pratensis
Hygrocybe psittacina var. psittacina
Hygrocybe punicea
Hygrocybe quieta
Hygrocybe reidii
Hygrocybe ruscocoriacea
Hygrocybe splendidissima
Hygrocybe virginea var. ochraceopallida
Hygrocybe virginea var. virginea
Hypholoma ericaeum
Lepista panaeolus
Marasmius oreades
Megacollybia platyphylla
Panaeolus acuminatus
Panaeolus semiovatus var. semiovatus
Psilocybe semilanceata
Clavaria fragilis
Clavulinopsis corniculata
Clavulinopsis fusiformis
Clavulinopsis helvola
Clavulinopsis laeticolor
Clavulinopsis luteoalba
Lycoperdon nigrescens
Vascellum pratense
Phragmidium violaceum

Sites Searched: Dursey Island

Hygrocybe: 11  Clavariaceae 3  Entolomaceae: 3  Geoglossaceae: 0  Others: 1

Part of the wonderful Dursey Island site. Probably this section of the island is the least good but there are still good areas of grassland at the junction between the heath and the farmed fields and again at the coastal fringe. The fields themselves could be promising as some of them may not be highly fertilised but lack of time and access prevented these from being searched.

Grassland Target Species Recorded

Clavulinopsis fusiformis
Clavulinopsis helvola
Clavulinopsis luteoalba
Entoloma conferendum
Entoloma longistriatum var. sarcitulum
Entoloma serrulatum
Hygrocybe cantharellus
Hygrocybe chlorophana
Hygrocybe coccinea
Hygrocybe conica var. conica
Hygrocybe glutinipes var. glutinipes
Hygrocybe insipida
Hygrocybe miniata
Hygrocybe psittacina var. psittacina
Hygrocybe quieta
Hygrocybe russocoriacea
Hygrocybe virginea var. virginea
Dermoloma cuneifolium var. cuneifolium

Site Details: See Dursey Island description under V43

V53

Sites Searched: Crow Head

Hygrocybe: 8 Clavariaceae 1 Entolomaceae: 2 Geoglossaceae: 0 Others: 0

There is very little land in this square and much is unsuitable habitat being coastal heath or thrift dominated grassland. The waxcap interest is scattered and unlikely to be much better than found here.

Grassland Target Species Recorded
Clavulinopsis helvola
Entoloma conferendum
Entoloma prunuloides
Hygrocybe chlorophana
Hygrocybe coccinea
Hygrocybe glutinipes var. glutinipes
Hygrocybe insipida
Hygrocybe psittacina var. psittacina
Hygrocybe quieta
Hygrocybe russocoriacea
Hygrocybe virginea var. ochraceopallida

Site Details:

Site: Crow Head
Date Visited: 31/10/2007 GridRef: V507395
H: 8 C: 1 E: 2 G: 0 O: 0 IrishScore: 8

The low peninsula running out to Crow Head. Dominated by coastal heath on the higher parts, the waxcap interest was confined to the grassy fringes between the heath and the sea. Much of this is salt splashed turf dominated by thrift which is not particularly good for waxcaps which prefer the grassier areas. The waxcaps were therefore very scattered on this peninsula.

Agaricus urinascens
Collybia dryophila
Entoloma conferendum
Entoloma prunuloides
Hygrocybe chlorophana
Hygrocybe coccinea
Hygrocybe glutinipes var. glutinipes
Hygrocybe insipida
Hygrocybe psittacina var. psittacina
Hygrocybe quieta
Hygrocybe russocoriacea
Hygrocybe virginea var. ochraceopallida
Hypholoma ericaeum
Mycena leptoccephala
Omphalina ericetorum
Panaeolus acuminatus
Psilocybe coprophila
Clavulinopsis helvola
Bovista nigrescens

V54

Sites Searched:  Ballynacarriga, eastern end of Dursey Island

Hygrocybe:  18  Clavariaceae  6  Entolomaceae:  12  Geoglossaceae:  1  Others:  1

This is a very good square. The areas searched were Ballynacarriga and the eastern end of Dursey Island. Other potential areas are the coastal slopes between Ballaghboy (the cable car) and Garinish. The north facing slopes of Lackacroghan are also promising. There are also possible sites around Allihies making this probably the best square on the Beara Peninsula.

Grassland Target Species Recorded
Clavaria fragilis
Clavulinopsis corniculata
Clavulinopsis fusiformis
Clavulinopsis helvola
Clavulinopsis faeticolor
Clavulinopsis luteoalba
Entoloma asprellum
Entoloma bloxami
Entoloma chalybaeum var. chalybaeum
Entoloma conferendum
Entoloma corvinum
Entoloma elodes
Entoloma longistriatum var. sarcitulum
Entoloma poliopus var. poliopus
Entoloma prunuloides
Entoloma sericeum
Entoloma serrulatum
Entoloma turci
Geoglossum fallax
Hygrocybe cantharellus
Hygrocybe ceracea
Hygrocybe chlorophana
Hygrocybe coccinea
Hygrocybe conica var. conica
Hygrocybe flavipes
Hygrocybe glutinipes var. glutinipes
Hygrocybe insipida
Hygrocybe irrigata
Hygrocybe nitrata
Hygrocybe pratensis
Hygrocybe psittacina var. psittacina
Hygrocybe punicea
Hygrocybe quieta
Hygrocybe reidii
Hygrocybe russocoriacea
Hygrocybe splendidissima
Site Details:

Site: Ballynacarriga

Date Visited: 31/10/2007 GridRef: V515405
H: 17  C: 5  E: 8  G: 1  O: 1  IrishScore: 29

Rough grassland on the western slopes of the mainland facing Dursey Island. Grazing by cattle and sheep. A very good site with continual waxcap interest along the coastal slopes with the waxcaps in particular fruiting on the steeper slopes or old grassed over walls. Notable species include Entoloma elodes on the heath, E. turci and H. splendidissima. There were large amounts of the Orange Peel Fungus, Aleuria aurantia fruiting on the gravel road through the site.

Calocybe carnea
Dermoloma cuneifolium var. cuneifolium
Entoloma asprellum
Entoloma chalybaeum var. chalybaeum
Entoloma conferendum
Entoloma corvinum
Entoloma elodes
Entoloma poliopus var. poliopus
Entoloma prunuloides
Entoloma turci
Hygrocybe cantharellus
Hygrocybe ceracea
Hygrocybe chlorophana
Hygrocybe coccinea
Hygrocybe conica var. conica
Hygrocybe flavipes
Hygrocybe glutinipes var. glutinipes
Hygrocybe insipida
Hygrocybe irrigata
Hygrocybe pratensis
Hygrocybe psittacina var. psittacina
Hygrocybe punicea
Hygrocybe quieta
Hygrocybe reidii
Hygrocybe russocoriacea
Hygrocybe splendidissima
Hygrocybe virginea var. ochraceopallida
Hygrocybe virginea var. virginea
Mycena leptocephala
Panaeolus acuminatus
Psilocybe semilanceata
Clavaria fragilis
Clavulinopsis corniculata
Clavulinopsis fusiformis
Clavulinopsis helvola
Clavulinopsis luteoalba
Vascellum pratense
Aleuria aurantia
Geoglossum fallax

Site: Eastern end of Dursey Island. For details, see description under V43
Sites Searched: Knockgour, Castletownbere, Glebe graveyard, Dunboy House

Hygrocybe: 6  Clavariaceae: 0  Entolomaceae: 1  Geoglossaceae: 1  Others: 0

The best site found was Knockgour but lack of time at the end of the day prevented a full search of this site. It will undoubtedly be much better. The southern side of Bear Island is another possible site but time prevented any visit to Bear Island. Other sites were visited in this square were unsuccessful. Glebe graveyard had no macrofungi, Dunboy House lawn was destroyed due to construction work and the churchyards in Castletownbere were either locked or tarmaced over.

Grassland Target Species Recorded
Entoloma sericellum
Geoglossum fallax
Hygrocybe chlorophana
Hygrocybe coccinea
Hygrocybe conica var. conica
Hygrocybe russocoriacea
Hygrocybe splendidissima
Hygrocybe virginea var. virginea

Site Details:

Site: Castletownbere
Date Visited: 31/10/2007  GridRef: V678459
H: 1  C: 0  E: 0  G: 0  O: 0  IrishScore: 0

The churchyards in the town were either locked and inaccessible or tarmaced over. The only waxcap found was Hygrocybe conica in a domestic lawn.

Hygrocybe conica var. conica

Site: Knockgour
Date Visited: 06/11/2007  GridRef: V615446
H: 6  C: 0  E: 1  G: 1  O: 0  IrishScore: 10

This site has great potential as a waxcap site. There are significant areas of acid grassland on the slopes and summit of the mountain especially at the northern end of the summit ridge (Knockoura). Only a small area was searched alongside the switchbacks on the road up to the mast as time was short and light fading fast at the end of the day.

Entoloma sericellum
Hygrocybe chlorophana
Hygrocybe coccinea
Hygrocybe conica var. conica
Hygrocybe russocoriacea
Hygrocybe splendidissima
Hygrocybe virginea var. virginea
Panaeolus acuminatus
Panaeolus papilionaceus var. papilionaceus
Psilocybe semilanceata
Stropharia semiglobata
Geoglossum fallax
Sites Searched: Eyeries Coast

Hygrocybe: 12 Clavariaceae 1 Entolomaceae: 1 Geoglossaceae: 1 Others: 0

This square is potentially very rich including coastal grassland as found by Eyeries and potential upland acid grassland areas in the mountains.

Grassland Target Species Recorded
- Clavulinopsis corniculata
- Entoloma serrulatum
- Trichoglossum hirsutum
- Hygrocybe chlorophana
- Hygrocybe coccinea
- Hygrocybe conica
- Hygrocybe laeta
- Hygrocybe nitrata
- Hygrocybe pratensis
- Hygrocybe psittacina
- Hygrocybe punicea
- Hygrocybe reidii
- Hygrocybe russocoriacea
- Hygrocybe splendidissima
- Hygrocybe virginea var. virginea
- Hygrocybe virginea var. ochraceopallida

Site Details:

Site: Eyeries Coast

Date Visited: 31/10/2002 GridRef: V646523

H: 12  C: 1  E: 1  G: 1  O: 0  IrishScore: 23

This site was visited by the author in 2002, not during this survey. The coastal section of the Beara Way by Eyeries was walked and various small grassland sections on this walk were very rich. Hygrocybe nitrata, H. punicea and H. splendidissima were the good finds.

Agaricus bernardii
Entoloma serrulatum
Hygrocybe chlorophana
Hygrocybe coccinea
Hygrocybe conica
Hygrocybe laeta
Hygrocybe nitrata
Hygrocybe pratensis
Hygrocybe psittacina
Hygrocybe punicea
Hygrocybe reidii
Hygrocybe russocoriacea
Hygrocybe splendidissima
Hygrocybe virginea
Hygrocybe virginea var. ochraceopallida
Stropharia semiglobata
Clavulinopsis corniculata
Trichoglossum hirsutum
Trochila ilicina

V72

Sites Searched: Mizen Head, Barley Cove, Brow Head, Crookhaven

36
Hygrocybe: 7  Clavariaceae: 1  Entolomaceae: 4  Geoglossaceae: 0  Others: 0

The best site on this square is Barley Cove. A lot of the rest of the square is either intensive agriculture, coastal heath or bog meaning the best suitable grassland is probably restricted to the coastal fringe or when there is a heath grassland mosaic which is often not easy to find.

Grassland Target Species Recorded
Clavulinopsis luteoalba
Entoloma conferendum
Entoloma hispidulum
Entoloma incanum
Entoloma longistriatum var. sarcitulum
Hygrocybe calciphila
Hygrocybe cantharellus
Hygrocybe chlorophana
Hygrocybe coccinea
Hygrocybe conica var. conica
Hygrocybe conica var. conicoides
Hygrocybe persistens var. persistens
Hygrocybe virginia var. ochraceopallida
Hygrocybe virginia var. virginia

Site Details:

Site: Barley Cove
Date Visited: 04/11/2007 GridRef: V766255
H: 4  C: 0  E: 2  G: 0  O: 0  IrishScore: 5

A wonderful set of dunes with significant area of moss rich dune grassland. However like many Irish dunes, they were dominated by huge numbers of Hygrocybe conica var. conicoides, H.persists, Hygrocybe virginia var. ochraceopallida and Geoglossum cookeanum. Masses of fruiting bodies with little species diversity. All the species occuring were also found at Inchydoney but the full range of species found there was not present at Barley Cove. Why this was is not possible to explain. The embryo dunes supported abundant fruiting of Melanoleuca cinereifolia but with no Psathyrella ammophila found. Peziza ammophila which is more rarely recorded in Ireland was also found. Hygrocybe calciphila and Omphalina subhepatica were the other notable species.

Clitocybe dealbata
Entoloma hispidulum
Entoloma incanum
Hygrocybe calciphila
Hygrocybe conica var. conicoides
Hygrocybe persistens var. persistens
Hygrocybe virginia var. ochraceopallida
Lepista nuda
Melanoleuca cinereifolia
Melanoleuca excisca
Omphalina subhepatica
Panaeolus acuminatus
Panaeolus papilionaceus var. papilionaceus
Panaeolus semiovatus var. semiovatus
Stropharia semifglobata
Peziza ammophila
Mucilago crustacea

Site: Brow Head
Date Visited: 04/11/2007 GridRef: V770233
A small area of coastal grassland with large areas of coastal heath. Unlikely to be of significant mycological interest although the milk cap, *Lactarius lacunarum*, was found associated with the *Salix repens* on the heath which is unusual although also reported from Scotland. This association was also found in County Clare in 2006.

*Bolbitius vitellinus*
*Collybia dryophila*
*Entoloma conferendum*
*Entoloma longistriatum var. sarcitulum*
*Hygrocybe conica var. conica*
*Lactarius lacunarum*
*Panaeolus acuminatus*
*Phragmidium violaceum*
*Mucilago crustacea*

**Site:** Church of St Brendan the Navigator  
**Date Visited:** 04/11/2007  
**GridRef:** V796251  
**H: 1  C: 0  E: 2  G 0  O: 0  IrishScore: 1**

A small area of lawn that is very herb dominated rather than grass and moss. Unlikely to be of significant interest.

*Hygrocybe chlorophana*
*Hygrocybe coccinea*
*Hygrocybe conica var. conica*
*Hygrocybe virginea var. virginea*
*Clavulinopsis luteoalba*

**Site:** Mizen Head  
**Date Visited:** 04/11/2007  
**GridRef:** V738236  
**H: 1  C: 0  E: 2  G 0  O: 0  IrishScore: 1**

The head is dominated by heath on the upper slopes and the areas of grassland are salt splashed and dominated by thrift. Unlikely to be of significant mycological interest.

*Agaricus impudicus*
*Collybia dryophila*
*Entoloma conferendum*
*Entoloma longistriatum var. sarcitulum*
*Hygrocybe cantharellus*
*Vascellum pratense*

**V73**

**Sites Searched:** Sheep's Head

**Hygrocybe:** 7  **Clavariaceae:** 3  **Entolomaceae:** 8  **Geoglossaceae:** 0  **Others:** 0

See description for the Sheep's Head site.

**Grassland Target Species Recorded**
*Clavulinopsis fusiformis*
*Clavulinopsis helvola*
*Clavulinopsis luteoalba*
*Entoloma chalybaeum var. chalybaeum*
*Entoloma conferendum*
Entoloma corvinum
Entoloma elodes
Entoloma hispidulum
Entoloma longistriatum var. sarcitulum
Entoloma poliopus var. poliopus
Entoloma prunuloides
Hygrocybe cantharellus
Hygrocybe chlorophana
Hygrocybe conica var. conica
Hygrocybe glutinipes var. glutinipes
Hygrocybe insipida
Hygrocybe psittacina var. psittacina
Hygrocybe russocoriacea

Site Details:

Site: Sheep’s Head

Date Visited: 05/11/2007 GridRef: V720337

The area searched from the car park to the head. A lot of the land is dominated by Molinia or heath, but there are good areas of grassland especially at the cliff edges or intermixed with the heath. This site needs more visits as from experience from other similar sites in Ireland, it should be much better. The milk cap, Lactarius lacunarum was found again associated with Salix repens on the heath as at Mizen Head and Clear Island. Other notable species were Entoloma elodes and Entoloma hispidulum.

Agaricus bernardii
Agaricus impudicus
Agaricus urinascens
Entoloma chalybaeum var. chalybaeum
Entoloma conferendum
Entoloma corvinum
Entoloma elodes
Entoloma hispidulum
Entoloma longistriatum var. sarcitulum
Entoloma poliopus var. poliopus
Entoloma prunuloides
Hygrocybe cantharellus
Hygrocybe chlorophana
Hygrocybe conica var. conica
Hygrocybe glutinipes var. glutinipes
Hygrocybe insipida
Hygrocybe psittacina var. psittacina
Hygrocybe russocoriacea
Lactarius lacunarum
Macrolepiota mastoidea
Mycena leptocephala
Panaeolus acuminatus
Panaeolus papilionaceus var. papilionaceus
Panaeolus semiovatus var. semiovatus
Psilocybe semilanceata
Stropharia semiglobata
Clavulinopsis fusiformis
Clavulinopsis helvola
Clavulinopsis luteoalba
Vascellum pratense
Coprobia granulata
Sites Searched: Park (Hungry Hill), Rossmackowen Church

Hygrocybe: 8 Clavariaceae 1 Entolomaceae: 4 Geoglossaceae: 0 Others: 0

Significant areas of acid grassland exist in this square on the slopes of the mountains above the enclosed fields and this should be a very good square. Rossmackowen Common is another area that should be searched.

Grassland Target Species Recorded
Clavulinopsis helvola
Entoloma chalybaeum var. chalybaeum
Entoloma conferendum
Entoloma poliopus var. poliopus
Entoloma sericeum
Hygrocybe chlorophana
Hygrocybe conica var. conica
Hygrocybe insipida
Hygrocybe pratensis
Hygrocybe psittacina var. psittacina
Hygrocybe quieta
Hygrocybe reidii
Hygrocybe splendidissima

Site Details:

Site: Park, Hungry Hill
Date Visited: 02/11/2007 GridRef: V753486
H: 5 C: 1 E: 4 G 0 O: 0 IrishScore: 8

The southern slopes of Hungry Hill above the enclosed fields could potentially be a very good site. Experience says that this could be good but the dearth of fruiting bodies and the small nature of those that were around indicates that the maximum fruiting period has not begun this year. Notable species were Agrocybe pediades and Hygrocybe splendidissima.

Agrocybe pediades
Entoloma chalybaeum var. chalybaeum
Entoloma conferendum
Entoloma poliopus var. poliopus
Entoloma sericeum
Galerina vittiformis
Hygrocybe chlorophana
Hygrocybe insipida
Hygrocybe psittacina var. psittacina
Hygrocybe reidii
Hygrocybe splendidissima
Panaeolus acuminatus
Psilocybe coprophila
Psilocybe semilanceata
Rickenella fibula
Stropharia semiglobata
Clavulinopsis helvola

Site: Rossmackowen Church
Date Visited: 02/11/2007 GridRef: V742472
H: 4 C: 0 E: 0 G 0 O: 0 IrishScore: 5
A small churchyard with scattered waxcaps. Unlikely to be a very good site.

*Hygrocybe conica var. conica*
*Hygrocybe pratensis*
*Hygrocybe psittacina var. psittacina*
*Hygrocybe quieta*

**V75**

**Sites Searched:** Healy Pass

**Hygrocybe:** 7  **Clavariaceae** 1  **Entolomaceae:** 3  **Geoglossaceae:** 0  **Others:** 0

There are significant areas of acid grassland in this square. The Glenlough area is another potential area of interest.

**Grassland Target Species Recorded**
- *Clavulinopsis helvola*
- *Entoloma chalybaeum var. chalybaeum*
- *Entoloma conferendum*
- *Entoloma poliopus var. poliopus*
- *Hygrocybe cantharellus*
- *Hygrocybe chlorophana*
- *Hygrocybe conica var. conica*
- *Hygrocybe insipida*
- *Hygrocybe psittacina var. psittacina*
- *Hygrocybe reidii*
- *Hygrocybe virginea var. virginea*

**Site Details:**

**Site:** Healy Pass  
**Date Visited:** 02/11/2007  **GridRef:** V790535  
**H:** 7  **C:** 1  **E:** 3  **G:** 0  **O:** 0  **IrishScore:** 7

There is a significant area of acid grassland on mineral soil in the Healy Pass area and these should prove to be very good waxcap sites. As was the theme with the visits to acid grassland on the higher slopes of the Caha Mountains, fruiting was only just beginning and many more species should be found. This is very late and probably relates to the dry autumn.

*Entoloma chalybaeum var. chalybaeum*
*Entoloma conferendum*
*Entoloma poliopus var. poliopus*
*Hygrocybe cantharellus*
*Hygrocybe chlorophana*
*Hygrocybe conica var. conica*
*Hygrocybe insipida*
*Hygrocybe psittacina var. psittacina*
*Hygrocybe reidii*
*Hygrocybe virginea var. virginea*
*Mycena pura var. pura*
*Stropharia semiglobata*
*Clavulinopsis helvola*
*Cordyceps militaris*
*Octospora humosa*

**V83**

**Sites Searched:** Toormore C of I, Ahakista Air Memorial, Farranamagh Lough,
Hygrocybe: 13  Clavariaceae 3  Entolomaceae: 3  Geoglossaceae: 0  Others: 1

This square is split between Sheep’s Head peninsula and the Mizen Head peninsula. As much of the square is heath, bog or agricultural grassland, the fringe of coastal grassland and churchyards are the most important resource.

Grassland Target Species Recorded
- Clavaria straminea
- Clavulinopsis helvola
- Clavulinopsis luteoalba
- Entoloma conferendum
- Entoloma infula
- Entoloma poliopus var. poliopus
- Hygrocybe calyptriformis
- Hygrocybe chlorophana
- Hygrocybe coccinea
- Hygrocybe conica var. conica
- Hygrocybe flavipes
- Hygrocybe insipida
- Hygrocybe irrigata
- Hygrocybe miniata
- Hygrocybe pratensis
- Hygrocybe psittacina var. psittacina
- Hygrocybe punicea
- Hygrocybe quieta
- Hygrocybe virginea var. virginea
- Dermoloma cuneifolium var. cuneifolium

Site Details:

Site:  Air Disaster Memorial, Ahakista
       Date Visited: 05/11/2007  GridRef:  V876396
       H: 3  C: 1  E: 1  G 0  O: 0  IrishScore: 3

Small area of grassland around the memorial to the Air India plane crash. Likely to have a few more species.

- Entoloma conferendum
- Hygrocybe chlorophana
- Hygrocybe psittacina var. psittacina
- Hygrocybe virginea var. virginea
- Lactarius deliciosus
- Clavulinopsis helvola
- Phragmidium violaceum

Site:  Farranamagh Lough
       Date Visited: 05/11/2007  GridRef:  V830377
       H: 2  C: 0  E: 1  G 0  O: 0  IrishScore: 2

Small strip of quite rank grassland between the shingle beach and the lough. Unlikely to be of further mycological interest.

- Coprinus comatus
- Entoloma poliopus var. poliopus
- Hygrocybe conica var. conica
- Hygrocybe virginea var. virginea
Site: Kilcrohane Church  
**Date Visited:** 05/11/2007  
**GridRef:** V820379  
**H:** 9  **C:** 3  **E:** 2  **G:** 0  **O:** 1  **IrishScore:** 14

A small but very rich churchyard containing *Hygrocybe calyptriformis* at its second West Cork site. The other notable species were the fairy club, *Clavaria straminea* and *Stropharia pseudocyanea*. Letter and leaflet on managing for grassland fungi sent to church.

- *Cystoderma amianthinum*
- *Dermoloma cuneifolium var. cuneifolium*
- *Entoloma infula*
- *Entoloma poliopus var. poliopus*
- *Galerina vittiformis*
- *Hygrocybe calyptriformis*
- *Hygrocybe chlorophana*
- *Hygrocybe insipida*
- *Hygrocybe irrigata*
- *Hygrocybe miniata*
- *Hygrocybe pratensis*
- *Hygrocybe psittacina var. psittacina*
- *Hygrocybe quieta*
- *Hygrocybe virginia var. virginia*
- *Lepista nuda*
- *Mycena leptocephala*
- *Stropharia pseudocyanea*
- *Clavaria straminea*
- *Clavulinopsis helvola*
- *Clavulinopsis luteolaiba*

Site: Toormore Church of Ireland  
**Date Visited:** 04/11/2007  
**GridRef:** V861309  
**H:** 5  **C:** 0  **E:** 1  **G:** 0  **O:** 0  **IrishScore:** 10

A small moss rich churchyard with some interesting species like *Hygrocybe punicea* and *H.flavipes*. These indicate that there will be other species of interest present possibly also *H.calyptriformis*.

- *Entoloma conferendum*
- *Hygrocybe coccinea*
- *Hygrocybe flavipes*
- *Hygrocybe insipida*
- *Hygrocybe punicea*
- *Hygrocybe quieta*
- *Melanoleuca polioleuca f. polioleuca*
- *Mycena pura var. pura*
- *Mucilago crustacea*

**V84**

**Sites Searched:** Ahakista Church

**Hygrocybe:** 6  **Clavariaceae:** 0  **Entolomaceae:** 2  **Geoglossaceae:** 0  **Others:** 0

This square is split between Sheep's Head peninsula and part of the Beara peninsula. As much of the square is heath, bog or agricultural grassland, the fringe of coastal grassland and churchyards are the most important resource. The part of the Beara was driven through and is thought not to be very hopeful but lack of access to the coast prevented any searching. Most of the area on the Sheep's Head peninsula is bog and is unsuitable. Parts of the northern coastal fringe could be hold some waxcaps (but probably not many) but lack of access and time prevented these being
Grassland Target Species Recorded

- Entoloma bloxamii
- Entoloma conferendum
- Hygrocybe ceracea
- Hygrocybe chlorophana
- Hygrocybe conica var. conica
- Hygrocybe nitrata
- Hygrocybe psittacina var. psittacina
- Hygrocybe virginea var. virginea

Site Details:

Site: Ahakista Church
Date Visited: 05/11/2007 GridRef: V875404
H: 6 C: 0 E: 2 G 0 O: 0 IrishScore: 13

A small moss rich churchyard with some very notable species. Hygrocybe nitrata is one of the rarer waxcaps and this is the first time it was found on this survey. Entoloma bloxamii is a striking Entoloma on the Northern Ireland Priority Species list. These species are unusual in Irish churchyards and their presence means that there is a very good likelihood that this is a good churchyard worthy of more visits.

Entoloma bloxamii
Entoloma conferendum
Hygrocybe ceracea
Hygrocybe chlorophana
Hygrocybe conica var. conica
Hygrocybe nitrata
Hygrocybe psittacina var. psittacina
Hygrocybe virginea var. virginea
Melanoleuca p. polioleuca
Mycena pura var. pura
Rhytisma acerinum

V85

Sites Searched: Lackavane

Hygrocybe: 10 Clavariaceae 1 Entolomaceae: 5 Geoglossaceae: 0 Others: 0

Much of the square is dominated by bog or agricultural fields but there are area of acid grassland on the more mineral soils of the slopes of the Sugarloaf Mountain. These should prove to be much better waxcap sites if visited at peak fruiting time.

Grassland Target Species Recorded

- Clavulinopsis helvola
- Entoloma conferendum
- Entoloma corvinum
- Entoloma formosum
- Entoloma inflata
- Entoloma sericellum
- Hygrocybe chlorophana
- Hygrocybe conica var. conica
- Hygrocybe helobia
- Hygrocybe insipida
- Hygrocybe irrigata
- Hygrocybe psittacina var. psittacina
Hygrocybe punicea
Hygrocybe reidii
Hygrocybe splendidissima
Hygrocybe virginea var. virginea

Site Details:

Site: Lackavane
Date Visited: 02/11/2007 GridRef: V865518
H: 10  C: 1  E: 5  G: 0  O: 0  IrishScore: 18

Acid grassland on the southern slopes of Sugarloaf Mountain. Some larger areas of acid
grassland exist above the enclosed fields interdispersed between the heath and wetter peat.
From previous experience, this looked a very promising site but was a bit disappointing.
Some key indicators like Hygrocybe punicea and H. splendidissima were present but the
fruiting bodies were very small. This and the lack of other common species like H. pratensis
and H. coccinea and any earth tongue suggests that fruiting is only getting started which is
much later than in normal years. A site to be revisited. Other notable species include
Entoloma formosum, a striking Leptonia with a richly coloured brown cap.

Collybia butyracea f. butyracea
Cystoderma amianthinum
Entoloma conferendum
Entoloma corvinum
Entoloma formosum
Entoloma infula
Entoloma sericellum
Flammulina velutipes
Hygrocybe chlorophana
Hygrocybe conica var. conica
Hygrocybe helobia
Hygrocybe insipida
Hygrocybe irrigata
Hygrocybe psittacina var. psittacina
Hygrocybe punicea
Hygrocybe reidii
Hygrocybe splendidissima
Hygrocybe virginea var. virginea
Hypholoma fasciculare
Megacollybia platyphylla
Mycena adonis var. adonis
Mycena pura var. pura
Panaeolus acuminatus
Panaeolus papilionaceus var. papilionaceus
Psilocybe semilanceata
Rickenella fibula
Russula delica
Stropharia semiglobata
Tricholomopsis rutilans
Clavulinopsis helvola
Hymenochaete corrugata
Hypoxylon fuscum
Leptosphaeria acuta
Rhytisma acerinum
Trochila ilicina
Phragmidium violaceum
V91

Sites Searched: Cape Clear, Clear Island

Hygrocybe: 3  Clavariaceae 2  Entolomaceae: 5  Geoglossaceae: 0  Others: 0

Very little land within this square. Restricted to small area on very south of island consisting of rough acid grassland and coastal heath mosaic.

Grassland Target Species Recorded
- Clavulinopsis helvolae
- Clavulinopsis luteoalba
- Entoloma conferendum
- Entoloma longistriatum var. sarcitulum
- Entoloma poliopus var. poliopus
- Entoloma sericeum
- Entoloma turci
- Hygrocybe conica var. conica
- Hygrocybe insipida
- Hygrocybe reidii

Site Details:
See site description of Cape Clear under the V92 description below.

V92

Sites Searched: Cape Clear, Clear Island

Hygrocybe: 7  Clavariaceae 1  Entolomaceae: 9  Geoglossaceae: 0  Others: 0

The farmed part of Clear Island are largely unsuitable for waxcaps although some fields that have received less fertiliser may be of interest. The main areas are the rough acid grassland found intermixed with the more dominant heath. The area searched was to the south of the harbour to Cape Clear. The other potential areas to the east of the harbour are probably the south eastern higher slopes which are also a mosaic of heath and grassland. Cooslahan Point could be another possible area of interest.

Grassland Target Species Recorded
- Clavulinopsis helvolae
- Entoloma bloxamii
- Entoloma chalybaeum var. chalybaeum
- Entoloma conferendum
- Entoloma corvinum
- Entoloma longistriatum var. sarcitulum
- Entoloma poliopus var. poliopus
- Entoloma prunuloides
- Entoloma sericeum
- Entoloma turci
- Hygrocybe chlorophana
- Hygrocybe conica var. conica
- Hygrocybe insipida
- Hygrocybe psittacina var. psittacina
- Hygrocybe reidii
- Hygrocybe russocoriacea
- Hygrocybe virginea var. virginea

Site Details:
Rough acid grassland and coastal heath mosaic on Cape Clear. The coastal fringes of the Cape are the most interesting but the impression was that the waxcaps are yet to fruit. Entolomas were good but there was very little fruiting of Hygrocybe species and those that were were often very small giving the impression that fruiting was only beginning. Do species fruit slightly later on Clear Island compared to the mainland due to the maritime influence? Notable species include Conocybe pubescens on dung, Entoloma bloxamii, E. longistriatum var. sarcitulum, E.turci and the rust, Puccinia umbilici on Navelwort.

Agaricus campestris
Agaricus impudicus
Clitocybe dealbata
Collybia dryophila
Conocybe pubescens
Entoloma bloxamii
Entoloma chalybaeum var. chalybaeum
Entoloma conferendum
Entoloma corvinum
Entoloma longistriatum var. sarcitulum
Entoloma poliopus var. poliopus
Entoloma prunulooides
Entoloma sericeum
Entoloma turci
Hygrocybe chlorophana
Hygrocybe conica var. conica
Hygrocybe insipida
Hygrocybe psittacina var. psittacina
Hygrocybe reidi
Hygrocybe russcoriacea
Hygrocybe virginea var. virginea
Mycena leptopephala
Mycena pura var. pura
Panaeolus acuminatus
Panaeolus semiovatus var. semiovatus
Psilocybe coprophila
Stropharia semiglobata
Clavulinopsis helvola
Clavulinopsis luteola
Vascellum pratense
Phragmidium violaceum
Puccinia umbilici

Sites Searched: Mount Gabriel, Church of St. Matthias, Ballydehob, Schull RC Church

Hygrocybe: 7 Clavariaceae 3 Entolomaceae: 3 Geoglossaceae: 0 Others: 1
The higher lands within this square, like Mount Gabriel, are largely uninteresting as they are deep peat and dominated by heather and Molinia. The lowlands are intensively managed so waxcap interest will be very localised and scattered.

Grassland Target Species Recorded
Clavaria fragilis
Clavulinopsis helvola
Clavulinopsis luteola
Entoloma sericeum
Entoloma sericeum
Entoloma serratulum
Hygrocybe chlorophana
Hygrocybe conica var. conica
Hygrocybe flavipes
Hygrocybe pratensis
Hygrocybe psittacina var. psittacina
Hygrocybe russocoriacea
Hygrocybe virginea var. virginea
Dermoloma cuneiform var. cuneiform

Site Details:

Site: Church of St. Matthias, Ballydehob
Date Visited: 29/10/2007 GridRef: V983336
H: 3  C: 1  E: 0  G: 0  O: 1  IrishScore: 6

Small moss rich churchyard. Potential for more species. Notable species include Hygrocybe flavipes and Clavaria fragilis.

Dermoloma cuneiform var. cuneiform
Hygrocybe chlorophana
Hygrocybe flavipes
Hygrocybe pratensis
Clavaria fragilis

Site: Mount Gabriel
Date Visited: 29/10/2007 GridRef: V930348
H: 5  C: 2  E: 3  G: 0  O: 0  IrishScore: 5

Much of the hill of Mount Gabriel is not suitable for waxcaps with peat too deep and vegetation too thick. Best areas are those around the radar installations where turf is short due to disturbance, in thinner soils on slope often around rock outcrops or alongside road. Best example found of this was at V927350.

Entoloma sericellum
Entoloma sericeum
Entoloma serrulatum
Hygrocybe chlorophana
Hygrocybe conica var. conica
Hygrocybe psittacina var. psittacina
Hygrocybe russocoriacea
Hygrocybe virginea var. virginea
Mycena pura var. pura
Panaeolus acuminatus
Panaeolus papilionaceus var. papilionaceus
Clavulinopsis helvola
Clavulinopsis luteoalba
Octospora humosa

Site: Schull RC Church
Date Visited: 04/11/2007 GridRef: V928316
H: 2  C: 0  E: 0  G: 0  O: 0  IrishScore: 2

A very restricted area of lawn. Unlikely to be of significant grassland mycological interest, but Laccaria fraterna was recorded under Eucalyptus. This Australian species is thought to be increasing in the British Isles and has only recently been recorded in Ireland.

Hygrocybe conica var. conica
Hygrocybe virginea var. virginea
Laccaria fraterna

V94

Sites Searched: Bantry House, St. Finbarr's Roman Catholic Church (Bantry)

Hygrocybe: 17 Clavariaceae 7 Entolomaceae: 2 Geoglossaceae: 0 Others: 2

Most of this square is intensively managed for agriculture so waxcap interest will be very localised and scattered. However, as the exceptional Bantry House lawns show, where even small sites are still unfertilised, waxcap interest can be high which also shows how difficult it can be find these sites.

Grassland Target Species Recorded
Clavaria acuta
Clavaria fumosa
Clavaria straminea
Clavulinopsis coninculata
Clavulinopsis helvolia
Clavulinopsis laeticolor
Clavulinopsis luteoalba
Entoloma chalybaeum var. chalybaeum
Entoloma conferendum
Hygrocybe berkeleyi
Hygrocybe calyptriformis
Hygrocybe cantharellus
Hygrocybe ceracea
Hygrocybe chlorophana
Hygrocybe citrinovires
Hygrocybe coccinea
Hygrocybe conica var. conica
Hygrocybe flavipes
Hygrocybe glutinipes var. glutinipes
Hygrocybe insipida
Hygrocybe irrigate
Hygrocybe pratensis
Hygrocybe psittacina var. psittacina
Hygrocybe punicea
Hygrocybe reidii
Hygrocybe virginea var. virginea
Dermoloma cuneifolium var. cuneifolium
Porpoloma metapodium

Site Details:

Site: Bantry House

Date Visited: 30/10/2007 GridRef: V987483

A wonderful lawn, moss rich and very actively managed. No nutrients are ever added to the lawn and a wide range of species including notables and rarities like Porpoloma metapodium, Hygrocybe calyptriformis, H.citrinovires, H.flavipes, Clavaria straminea were recorded. The one odditity was a lack of Entolomas with only E.conferendum was recorded. Some common species like H.reidii, H.quieta and H.russocoriacea were not been recorded.

Calocybe carnea
Coprinus comatus
Cystoderma amlanthinum
Dermoloma cuneifolium var. cuneifolium
Entoloma chalybaeum var. chalybaeum
Entoloma conferendum
Hygrocybe berkeleyi
Hygrocybe calyptriformis
Hygrocybe cantharellus
Hygrocybe ceracea
Hygrocybe chlorophana
Hygrocybe citrinovirens
Hygrocybe coccinea
Hygrocybe conica var. conica
Hygrocybe flavipes
Hygrocybe glutinipes var. glutinipes
Hygrocybe insipida
Hygrocybe irrigata
Hygrocybe pratensis
Hygrocybe psittacina var. psittacina
Hygrocybe punicea
Hygrocybe reidii
Hygrocybe virginea var. virginea
Hypholoma fasciculare
Inocybe geophylla var. lilacina
Laccaria laccata
Lacrymaria lacrymabunda
Lepiota cristata
Oudemansiella mucida
Porpoloma metapodium
Rickenella fibula
Russula sanguinea
Clavaria acuta
Clavaria fumosa
Clavaria straminea
Clavulinopsis corniculata
Clavulinopsis helvola
Clavulinopsis laeticolor
Clavulinopsis luteoalba
Ganoderma australare
Stereum hirsutum
Trametes versicolor
Vasceullum pratense

Site: St. Finbarr’s Roman Catholic
Date Visited: 30/10/2007 GridRef: V999482
H: 4 C: 1 E: 0 G 0 O: 0 IrishScore: 4

Of moderate waxcap interest with a good area of mossy lawn in front of the church.

Coprinus disseminatus
Hygrocybe ceracea
Hygrocybe chlorophana
Hygrocybe conica var. conica
Hygrocybe virginea var. virginea
Clavulinopsis helvola

V95

Sites Searched: Big Meadow (Glengarriff National Nature Reserve), Glengarriff

Hygrocybe: 14 Clavariaceae 4 Entolomaceae: 4 Geoglossaceae: 0 Others: 1

Much of the upland in this square is too wet, dominated by heather and Molinia. Waxcap interest can be difficult to find but in areas managed for nature conservation like the NNR can be very good.
**Grassland Target Species Recorded**

- Clavaria acuta
- Clavaria straminea
- Clavulinopsis helvola
- Clavulinopsis luteoalba
- Entoloma chalybaeum var. chalybaeum
- Entoloma conferendum
- Entoloma corvinum
- Entoloma sericellum
- Hygrocybe ceracea
- Hygrocybe chlorophana
- Hygrocybe coccinea
- Hygrocybe conica var. conica
- Hygrocybe flavipes
- Hygrocybe fomicata
- Hygrocybe helobia
- Hygrocybe insipida
- Hygrocybe irigate
- Hygrocybe laeta var. laeta
- Hygrocybe pratensis
- Hygrocybe psittacina var. psittacina
- Hygrocybe reidii
- Hygrocybe virginea var. virginea
- Dermoloma cuneifolium var. cuneifolium

**Site Details:**

**Site:** Big Meadow, Glengarriff National Nature Reserve  
**Date Visited:** 30/10/2007  
**GridRef:** V915566  
**H:** 9  **C:** 3  **E:** 2  **O:** 0  **IrishScore:** 12

Managed as semi-natural grassland within the woodland NNR. Grazed by Kerry cattle. Ant hills present. Rushy in parts but sward height ideal with plenty of mosses. This site is potentially a good waxcap site and in this visit some rarer species (*Hygrocybe flavipes*, *H.fornicata*, *Clavaria straminea*) were recorded and a number of common species (*H.conica*, *H.pratensis*, *H.quieta*) were not indicating that it will be much better than on this visit. Other notable species were the woodland etomycorrhizal species, *Hebeloma fusisporum* and *Hebeloma helodes* which are both new Irish records.

- Armillaria gallica
- Cystoderma amianthinum
- Entoloma chalybaeum var. chalybaeum
- Entoloma conferendum
- Hebeloma fusisporum
- Hebeloma helodes
- Hygrocybe chlorophana
- Hygrocybe flavipes
- Hygrocybe fomicata
- Hygrocybe helobia
- Hygrocybe insipida
- Hygrocybe laeta var. laeta
- Hygrocybe psittacina var. psittacina
- Hygrocybe reidii
- Hygrocybe virginea var. virginea
- Hypholoma fasciculare
- Hypholoma sublateritium
- Kuehneromyces mutabilis
- Laccaria laccata
- Lactarius glycosmus
Lepista sordida
Mycena epipterygia var. epipterygia
Mycena galericulata
Panaeolus acuminatus
Panaeolus papilionaceus var. papilionaceus
Panaeolus semiovatus var. semiovatus
Psilocybe semilanceata
Stropharia caerulea
Stropharia semiglobata
Tricholomopsis rutilans
Clavaria acuta
Clavaria straminea
Clavulinopsis helvola
Scleroderma citrinum

Site: Glengarriff Amenity Area
Date Visited: 30/10/2007 GridRef: V932564
H: 4 C: 1 E: 1 G 0 O: 1 IrishScore: 6
Damp moss rich grassland on a steep slope. Possibly had some nutrients added at some stage but still with moderate waxcap interest with a number of common species recorded.

Armillaria gallica
Dermoloma cuneifolium var. cuneifolium
Entoloma corvinum
Hygrocybe chlorophana
Hygrocybe conica var. conica
Hygrocybe insipida
Hygrocybe virginea var. virginea
Laccaria laccata
Lactarius glycosmus
Lactarius quietus
Panaeolus acuminatus
Russula betularum
Russula nigricans
Clavulinopsis helvola
Cordyceps militaris

Site: Glengarriff Castle
Date Visited: 30/10/2007 GridRef: V947556
H: 9 C: 2 E: 0 G 0 O: 0 IrishScore: 10
Four different areas of grassland grazed by horses and donkeys within the woodland around the ruin of the old castle. The old lawn in front of the castle had waxcap interest dominated by H.chlorophana. This site is worth keeping an eye on for more species. Interesting woodland records include Entoloma rhodopolium var. nidorosum and Grifola frondosa.

Armillaria gallica
Boletus edulis
Clitopilus prunulus
Entoloma rhodopolium var. nidorosum
Hygrocybe ceracea
Hygrocybe chlorophana
Hygrocybe coccinea
Hygrocybe conica var. conica
Hygrocybe insipida
Hygrocybe irrigata
Hygrocybe pratensis
Hygrocybe psittacina var. psittacina

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Hygrocybe virginea var. virginea
Hypholoma fasciculare
Laccaria laccata
Lactarius blennius
Lactarius glyciomus
Panaeolus acuminatus
Panaeolus papilionaceus var. papilionaceus
Panaeolus semiovatus var. semiovatus
Pleurotus ostreatus
Russula atropurpurea
Russula delica
Russula mairei
Russula sanguinea
Stropharia semiglobata
Tricholomopsis rutilans
Clavulinopsis helvola
Clavulinopsis luteoalba
Grifola frondosa
Postia caesia
Lycoperdon perlatum
Lycoperdon pyriforme
Scleroderma citrinum
Dacrymyces stillatus
Tremella mesenterica
Ascocoryne sarcoides

Site: Glengarriff Cemetery
Date Visited: 30/10/2007 GridRef: V927564
H: 0  C: 0  E: 2  G: 0  O: 0  IrishScore: 0

This site should have some waxcaps as it is moss rich but it is unlikely to be a particularly good site.

Entoloma chalybaeum var. chalybaeum
Entoloma sericeum

W02

Sites Searched: St. Matthew's C of I (Baltimore), Baltimore Beacon, Knockomagh Wood

Hygrocybe: 13  Clavariaceae 2  Entolomaceae: 7  Geoglossaceae: 1  Others: 1

This square includes the coastal headlands to the south of Baltimore, Sherkin Island, Ringarogy Island and parts of Hare Island. There are few large areas of unimproved grassland in the square, most being within the heath grassland mosaic on the coastal cliffs. There are small areas of dunes on Sherkin but these were not visited due to lack of time but I have the feeling that Sherkin is not particularly good for waxcaps. The headlands to the east of the Beacon could be the best semi natural site but again time prevented these being searched. Churchyards form the other important ressource.

Grassland Target Species Recorded
Clavulinopsis helvola
Clavulinopsis luteoalba
Entoloma asprellum
Entoloma corvinum
Entoloma infula
Entoloma jubatum
Entoloma poliopus var. poliopus
Entoloma sericeum
Entoloma serrulatum
Trichoglossum hirsutum
Hygrocybe berkeleyi
Hygrocybe chlorophana
Hygrocybe coccinea
Hygrocybe conica var. conica
Hygrocybe insipida
Hygrocybe irrigata
Hygrocybe nitrata
Hygrocybe psittacina var. psittacina
Hygrocybe punicea
Hygrocybe quieta
Hygrocybe reidii
Hygrocybe russocoriacea
Hygrocybe virginea var. virginea

Site Details:

Site: Baltimore Beacon
Date Visited: 10/11/2007 GridRef: W038255
H: 8 C: 2 E: 4 G: 0 O: 0 IrishScore: 7

This site includes all the rough acid grassland within the coastal heath mosaic on the head surrounding the Beacon overlooking Sherkin Island. It is largely grazed by cattle and has a scattered waxcap interest. It is unlikely to be much better than found today with maybe up to 12 or 13 species likely to be present. As found at a number of the coastal headlands, Agaricus bernardii was recorded.

Agaricus arvensis
Agaricus bernardii
Agaricus urinascens
Entoloma asprellum
Entoloma corvinum
Entoloma sericeum
Entoloma serrulatum
Hygrocybe chlorophana
Hygrocybe coccinea
Hygrocybe conica var. conica
Hygrocybe insipida
Hygrocybe psittacina var. psittacina
Hygrocybe russocoriacea
Hygrocybe virginea var. virginea
Lepista nuda
Macrolepiota excoriata
Panaeolus acuminatus
Panaeolus papilionaceus var. papilionaceus
Clavulinopsis helvolus
Clavulinopsis luteoalba
Phragmidium violaceum

Site: Knockomagh Wood Nature Reserve
Date Visited: 10/11/2007 GridRef: W093288
H: 1 C: 0 E: 0 G: 0 O: 0 IrishScore: 1

Knockomagh Wood overlooks Lough Hyne and is dominated by Beech in the deciduous part. It was decided to visit this site to look for waxcaps within the wood to see if the pattern of fruiting in woods that was a notable feature of the 2000 BMS foray to Fermanagh is repeated here and also to see what woodland fruiting patterns were like. Woodland fungi often fruit
earlier than grassland fungi so this is a late visit for a woodland. However, a number of ectomycorrhizal species, mainly Russulas, were fruiting although due to the dry weather, the sporocarps were often quite dried out. It would reinforce the idea of a very late fruiting season. One species of waxcap, *Hygrocybe coccinea*, was found in the wood. The most notable record was of *Thelephora penicillata* encrusting leaves. woodland fungi are not well recorded from County Cork so a number of these records are the first for the county in the British Mycological Society database.

*Amanita rubescens var. rubescens*
*Armillaria mellea*
*Boletus badius*
*Clitocybe nebularis*
*Collybia butyracea f. butyracea*
*Collybia confluens*
*Coprinus micaceus*
*Crepidotus mollis*
*Hygrocybe coccinea*
*Laccaria amethystina*
*Laccaria laccata*
*Lactarius blennius*
*Lactarius subdulcis*
*Lepista flaccida*
*Lepista nuda*
*Oudemansiella mucida*
*Russula cyanoxantha*
*Russula delica*
*Russula fellea*
*Russula mairei*
*Russula nigricans*
*Russula ochroleuca*
*Russula praetervisa*
*Tricholoma ustale*
*Tricholomopsis rutilans*
*Stereum hirsutum*
*Thelephora penicillata*
*Daldinia concentrica*
*Rhytisma acerinum*
*Phragmidium violaceum*

**Site:**  *St. Matthew’s C of I, Baltimore*

**Date Visited:**  01/11/2007  **GridRef:**  W046264

**H:**  12  **C:**  1  **E:**  3  **G:**  1  **O:**  0  **IrishScore:**  23

Small moss rich churchyard. The first visit to this site on 01/11/07 produced only 6 waxcaps but a second visit on 10/11/07 produced 11 waxcaps including *Hygrocybe nitrata* and *H. punicea*. A very likely site for *H. calyptriformis*.

*Entoloma infula*
*Entoloma jubatum*
*Entoloma poliopus var. poliopus*
*Hygrocybe berkeleyi*
*Hygrocybe chlorophana*
*Hygrocybe coccinea*
*Hygrocybe conica var. conica*
*Hygrocybe insipida*
*Hygrocybe irrigata*
*Hygrocybe nitrate*
*Hygrocybe psittacina var. psittacina*
Hygrocybe punicea
Hygrocybe quieta
Hygrocybe reidii
Hygrocybe virginea var. virginea
Clavulinopsis helvola
Trichoglossum hirsutum

**W03**

**Sites Searched:** Corravoley, Kilcoe Burial Ground, Reen Point, Church Cross CofI,

**Hygrocybe:** 11  **Clavariaceae:** 2  **Entolomaceae:** 3  **Geoglossaceae:** 0  **Others:** 1

Much of this square is intensively managed for agriculture or too acid and peat dominated so waxcap interest will be very localised and scattered.

**Grassland Target Species Recorded**
- Clavulinopsis corniculata
- Clavulinopsis helvola
- Entoloma chalybaeum var. chalybaeum
- Entoloma corvinum
- Entoloma longistriatum var. sarcitulum
- Hygrocybe ceracea
- Hygrocybe chlorophana
- Hygrocybe coccinea
- Hygrocybe conica var. conica
- Hygrocybe flavipes
- Hygrocybe insipida
- Hygrocybe pratensis
- Hygrocybe psittacina var. psittacina
- Hygrocybe quieta
- Hygrocybe reidii
- Hygrocybe virginea var. virginea
- Dermoloma cuneifolium var. cuneifolium

**Site Details:**

**Site:** Aghadown RC Church  
**Date Visited:** 10/11/2007  **GridRef:** W037350  
**H:** 2  **C:** 1  **E:** 0  **G:** 0  **O:** 1  **IrishScore:** 4

A large area of grass surrounds this church but fungal fruiting was almost negligible so this site is probably of minimal interest.

- Coprinus atramentarius
- Coprinus comatus
- Dermoloma cuneifolium var. cuneifolium
- Hygrocybe chlorophana
- Hygrocybe virginea var. virginea
- Clavulinopsis helvola

**Site:** Church Cross C of I  
**Date Visited:** 01/11/2007  **GridRef:** W062330  
**H:** 4  **C:** 0  **E:** 0  **G:** 0  **O:** 1  **IrishScore:** 6

Small moss rich churchyard. Likely to have more waxcaps and a potential *H. calyptriformis* site.
Dermoloma cuneifolium var. cuneifolium
Hygrocybe ceracea
Hygrocybe chlorophana
Hygrocybe insipida
Hygrocybe pratensis

Site: Corravoley, Ballydehob
Date Visited: 29/10/2007 GridRef: W025358
H: 3 C: 0 E: 0 G 0 O: 0 IrishScore: 3

Lawns of farmhouse. Moss rich.
Armillaria gallica
Hygrocybe chlorophana
Hygrocybe psittacina var. psittacina
Hygrocybe virginea var. virginea
Lacrymaria lacrymabunda
Puccinia lagenophorae

Site: Kilcoe Burial Ground
Date Visited: 29/10/2007 GridRef: W023332
H: 1 C: 0 E: 0 G 0 O: 0 IrishScore: 1

Small ruin of church and associated graveyard. Grass quite deep in places.

Hygrocybe virginea var. virginea
Phragmidium violaceum

Site: Lisheen Lower RC Church
Date Visited: 07/11/2007 GridRef: W037313
H: 10 C: 1 E: 0 G 0 O: 1 IrishScore: 14

A surprisingly rich churchyard and graveyard. The lawn in front of the church is very moss rich and spongy but the graveyard is dominated by herbs. Waxcaps were fruiting profusely in both areas including huge quantities of Hygrocybe quieta.

Armillaria gallica
Dermoloma cuneifolium var. cuneifolium
Hygrocybe chlorophana
Hygrocybe coccinea
Hygrocybe conica var. conica
Hygrocybe flavipes
Hygrocybe insipida
Hygrocybe pratensis
Hygrocybe psittacina var. psittacina
Hygrocybe quieta
Hygrocybe reidii
Hygrocybe virginea var. virginea
Stropharia aeruginosa
Clavulinopsis corniculata

Site: Reen Point
Date Visited: 29/10/2007 GridRef: W008336
H: 4 C: 1 E: 3 G 0 O: 0 IrishScore: 4

Short turf between rocky outcrops along shore between quay at W006341 and Reen Point. Cattle grazed and partly scrubbing over with gorse and bramble. Notable species include Entoloma longistriatum var. sarcitulum and Cortinarius croceus, which could be forming an ecto-mycorrhizal like relationship with sedges as no trees or other higher plants that form such

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relationships were in the vicinity.

Agaricus arvensis  
Collybia butyracea f. butyracea  
Cortinarius croceus  
Entoloma chalybaeum var. chalybaeum  
Entoloma conivum  
Entoloma longistriatum var. sarcitulum  
Hygrocybe conica var. conica  
Hygrocybe psittacina var. psittacina  
Hygrocybe reidii  
Hygrocybe virginea var. virginea  
Megacollybia platyphylla  
Mycena leptocephala  
Mycena pura var. pura  
Panaeolus acuminatus  
Panaeolus papilionaceus var. papilionaceus  
Panaeolus semiovatus var. semiovatus  
Clavulinopsis corniculata  
Vascellum pratense  
Phragmidium violaceum

**W04**

**Sites Searched:** Dromore RC Church

**Hygrocybe:** 2  **Clavariaceae** 1  **Entolomaceae:** 0  **Geoglossaceae:** 0  **Others:** 0

Some of the hills to the north of Dromore could be possible waxcap sites but the rest of the square is intensive agriculture.

**Grassland Target Species Recorded**
- Clavulinopsis helvola  
- Hygrocybe conica var. conica  
- Hygrocybe virginea var. virginea

**Site Details:**

**Site:** Dromore RC Church  
**Date Visited:** 03/11/2007  
**GridRef:** W062457  
**H:** 2  **C:** 1  **E:** 0  **G:** 0  **O:** 0  **IrishScore:** 2

A small moss rich churchyard. Likely to have more species present but would not expect too much.

- Armillaria gallica  
- Clitocybe dealbata  
- Clitocybe fragrans  
- Collybia peronata  
- Galerina vittiformis  
- Hygrocybe conica var. conica  
- Hygrocybe virginea var. virginea  
- Lepista flaccida  
- Tricholomopsis rutilans  
- Clavulinopsis helvola  
- Rhytisma acerinum

**W05**
**Sites Searched:** Kealkill RC Church

**Hygrocybe:** 5  **Clavariaceae** 1  **Entolomaceae:** 0  **Geoglossaceae:** 0  **Others:** 0

This square is mainly dominated by agricultural grassland so churchyards may offer the best sites.

**Grassland Target Species Recorded**

- Clavulinopsis helvola
- Hygrocybe chlorophana
- Hygrocybe coccinea
- Hygrocybe conica var. conica
- Hygrocybe quieta
- Hygrocybe virginea var. virginea

**Site Details:**

**Site:** Kealkill RC Church  
**Date Visited:** 08/11/2007  **GridRef:** W048561  
**H:** 5  **C:** 1  **E:** 0  **G:** 0  **O:** 0  **IrishScore:** 6

A small moss rich churchyard that could support more species.

- Hygrocybe chlorophana
- Hygrocybe coccinea
- Hygrocybe conica var. conica
- Hygrocybe quieta
- Hygrocybe virginea var. virginea
- Rickenella fibula
- Rickenella swartzii
- Clavulinopsis helvola

**W06**

**Sites Searched:** Goughane Barra, Goughane Barra Forest Park

**Hygrocybe:** 11  **Clavariaceae** 2  **Entolomaceae:** 1  **Geoglossaceae:** 2  **Others:** 0

This square contains the western half of the Shehy Mountains. Whilst much of it is very wet and acid and finding areas of suitable acid grassland will not be easy. The valley leading north from Kealkill should be searched. The grassland in the Goughane Barra Forest Park should be revisited.

**Grassland Target Species Recorded**

- Clavaria straminea
- Clavulinopsis helvola
- Entoloma conferendum
- Geoglossum cookeanum
- Geoglossum fallax
- Hygrocybe calypriformis
- Hygrocybe ceracea
- Hygrocybe chlorophana
- Hygrocybe coccinea
- Hygrocybe conica var. conica
- Hygrocybe helobia
- Hygrocybe irrigata
- Hygrocybe pratensis
- Hygrocybe psittacina var. psittacina
- Hygrocybe quieta
Hygrocybe virginea var. virginea

Site Details:

Site: Goughane Barra

Date Visited: 08/11/2007 GridRef: W092661

H: 11  C: 2  E: 1  G: 2  O: 0  IrishScore: 18

Moss rich grassland around the church and amenity grassland in front of the hotel. The notable species of *Hygrocybe calyptriformis* and *Clavaria straminea* were recorded here in front of the hotel and this site is probably more productive. There was also extensive fruiting of *Hygrocybe irrigata*.

*Armillaria gallica*
*Clitocybe fragrans*
*Cystoderma amianthinum*
*Entoloma conferendum*
*Galerina vittiformis*
*Hygrocybe calyptriformis*
*Hygrocybe ceracea*
*Hygrocybe chlorophana*
*Hygrocybe coccinea*
*Hygrocybe conica var. conica*
*Hygrocybe helobia*
*Hygrocybe irrigata*
*Hygrocybe pratensis*
*Hygrocybe psittacina var. psittacina*
*Hygrocybe quieta*
*Hygrocybe virginea var. virginea*
*Laccaria laccata*
*Lactarius blennius*
*Lactarius quietus*
*Lepista nuda*
*Panaeolus acuminatus*
*Clavaria straminea*
*Clavulinopsis helvola*
*Geoglossum cookeanum*
*Geoglossum fallax*
*Rhytisma acerinum*
*Trochila ilicina*
*Phragmidium violaceum*
*Mucilago crustacea*

Site: Goughane Barra Forest Park

Date Visited: 08/11/2007 GridRef: W083650

H: 0  C: 0  E: 0  G: 0  O: 0  IrishScore: 0

There are pockets of acid grassland within the Forest Park. One area in particular looked to have excellent potential. These were the steep north facing slopes to the south of the upper carpark. However no fungi were found at all on these slopes which is very difficult to explain. With the amount of Sphagnum on these slopes, it is possibly too acid and wet. In the forest the notable record of *Cordyceps capitata* parasitising the truffle *Elaphomyces granulatus* was found.

*Amanita rubescens var. rubescens*
*Armillaria gallica*
*Clitocybe fragrans*
*Clitocybe nebularis*
Cortinarius anomalus
Cystoderma amianthinum
Hypholoma fasciculare
Kuehneromyces mutabilis
Pholiota squarrosa
Russula ochroleuca
Suillus grevillei
Tricholomopsis rutilans
Clavulina coralloides
Hydnum repandum
Aleuria aurantia
Cordyceps capitata
Elaphomyces granulatus
Xylaria hypoxylon
Melampsoridium betulinum

W13

Sites Searched: Gurranes RC Church, St Barrahanes Church of Ireland

Hygrocybe: 4  Clavariaceae: 2  Entolomaceae: 0  Geoglossaceae: 0  Others: 0

A square that is dominated by agricultural grassland. Churchyards are likely to be the best sites.

Grassland Target Species Recorded
Clavaria fumosa
Clavulinopsis helvola
Hygrocybe ceracea
Hygrocybe chlorophana
Hygrocybe conica var. conica
Hygrocybe psittacina var. psittacina

Site Details:

Site: Gurranes RC Church
Date Visited: 07/11/2007 GridRef: W169314
H: 4  C: 2  E: 0  G: 0  O: 0  IrishScore: 6

A small moss rich churchyard that probably supports more waxcaps than found on this visit. Contains the notable fairy club, Clavaria fumosa.

Hygrocybe ceracea
Hygrocybe chlorophana
Hygrocybe conica var. conica
Hygrocybe psittacina var. psittacina
Rickenella fibula
Clavaria fumosa
Clavulinopsis helvola
Rhytisma acerinum

Site: St Barrahanes Church of Ireland,
Date Visited: 07/11/2007 GridRef: W186314
H: 0  C: 0  E: 0  G: 0  O: 0  IrishScore: 0

Surprisingly nothing at all was found in this churchyard which is difficult to explain.
Rhytisma acerinum
W14

Sites Searched: Drimoleague churches

Hygrocybe: 14 Clavariaceae 0 Entolomaceae: 5 Geoglossaceae: 0 Others: 1

Features two very rich churchyards - some of the best found to date in Ireland! The rest of the square is dominated by intensive agriculture.

Grassland Target Species Recorded

Entoloma infula
Entoloma jubatum
Entoloma poliopus var. poliopus
Entoloma prunuloides
Entoloma sericellum
Hygrocybe aurantiosplendens
Hygrocybe ceracea
Hygrocybe chlorophana
Hygrocybe coccinea
Hygrocybe conica var. conica
Hygrocybe fonicata
Hygrocybe insipida
Hygrocybe laeta var. laeta
Hygrocybe ovina
Hygrocybe pratensis
Hygrocybe psittacina var. psittacina
Hygrocybe punicea
Hygrocybe quieta
Hygrocybe virginea var. virginea
Dermoloma cuneifolium var. cuneifolium

Site Details:

Site: All Saints Church, Drimoleague
Date Visited: 03/11/2007 GridRef: W127461
H: 9  C: 0  E: 3  G: 0  O: 1  IrishScore: 17

A medium sized churchyard with some spectacular species. Hygrocybe ovina at only its fourth site in Ireland and an abundance of Hygrocybe punicea neither of which are often found in churchyards. H.calytriformis is likely to be found here and this churchyard is of high conservation value.

Armillaria gallica
Cystoderma amianthinum
Dermoloma cuneifolium var. cuneifolium
Entoloma infula
Entoloma poliopus var. poliopus
Entoloma prunuloides
Hygrocybe ceracea
Hygrocybe chlorophana
Hygrocybe coccinea
Hygrocybe conica var. conica
Hygrocybe ovina
Hygrocybe pratensis
Hygrocybe psittacina var. psittacina
Hygrocybe punicea
Hygrocybe virginea var. virginea
Mycena pura var. pura
Psilocybe semilanceata

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As rich as the All Saints churchyard with notable finds of *Hygrocybe aurantiosplendens*, *H.flavipes* and *H.fornicata*. There is a good probability that *H.calyptriformis* is also present and this churchyard also has a high conservation value.

*Dermoloma cuneifolium var. cuneifolium*
*Entoloma jubatum*
*Entoloma sericeum*
*Hygrocybe aurantiosplendens*
*Hygrocybe chlorophana*
*Hygrocybe conica var. conica*
*Hygrocybe fornicata*
*Hygrocybe insipida*
*Hygrocybe laeta var. laeta*
*Hygrocybe pratensis*
*Hygrocybe psittacina var. psittacina*
*Hygrocybe quieta*
*Hygrocybe virginea var. virginea*

**W16**

**Sites Searched:** Pass of Keimaneigh, Ballingeary Church

**Hygrocybe:** 5  **Clavariaceae** 0  **Entolomaceae:** 1  **Geoglossaceae:** 0  **Others:** 0

The areas that were surveyed were not very productive (Ballingeary church is surrounded by tarmac) but they are probably not representative of this square. There are interesting areas of upland acid grassland mainly on Doughill Mountain, Douce Mountain and the hills to the east of this. However access is not easy and time also prevented survey of these areas. They are worth investigating however as it would seem that the lower hills that are not covered by Molinia are more of interest. Forestry however can restrict the interest in these situations.

**Grassland Target Species Recorded**
*Entoloma asprellum*
*Hygrocybe chlorophana*
*Hygrocybe coccinea*
*Hygrocybe punicea*
*Hygrocybe reidii*
*Hygrocybe virginea var. virginea*

**Site Details:**

**Site:** Pass of Keimaneigh

**Date Visited:** 08/11/2007  **GridRef:** W104632

**H:** 5  **C:** 0  **E:** 1  **G:** 0  **O:** 0  **IrishScore:** 8

Rough acid grassland on the steep rocky slopes above the road. The grassland is limited as quickly grades into Molinia and this is unlikely to be a site of interest, but still *Hygrocybe punicea* was recorded.

*Entoloma asprellum*
*Hygrocybe chlorophana*
*Hygrocybe coccinea*
*Hygrocybe punicea*
*Hygrocybe reidii*
Hygrocybe virginea var. virginea
Panaeolus acuminatus
Panaeolus papilionaceus var. papilionaceus

W23

Sites Searched: Union Hall RC Church, Union Hall Church of Ireland, Leap RC Church,

Hygrocybe: 10 Clavariaceae 0 Entolomaceae: 5 Geoglossaceae: 2 Others: 1

Most of this square is dominated by agricultural grassland with the exception of the coastal headlands which may have a strip of unfertilised grassland along the cliff tops and Creggane Strand. The cliff tops were not searched as access is difficult. Churchyards will be important sites within this square.

Grassland Target Species Recorded
Entoloma atrocoeruleum
Entoloma chalybaeum var. chalybaeum
Entoloma conferendum
Entoloma exile
Entoloma jubatum
Geoglossum cookeanum
Trichoglossum hirsutum
Hygrocybe chlorophana
Hygrocybe coccinea
Hygrocybe conica var. conicoides
Hygrocybe flavipes
Hygrocybe helobia
Hygrocybe insipida
Hygrocybe irrigata
Hygrocybe pratensis
Hygrocybe psittacina var. psittacina
Hygrocybe virginea var. ochraceopallida
Hygrocybe virginea var. virginea
Dermoloma cuneifolium var. cuneifolium

Site Details:

Site: Creggane Strand

Date Visited: 09/11/2007 GridRef: W295363
H: 2 C: 0 E: 1 G: 1 O: 0 IrishScore: 4

Much of this dune system is highly modified with hard engineering along the beach front and a very manicured pitch and putt course takes up much of the fixed dune grassland. The rest is dominated by marram with little short turf. However, Stropharia halophila was recorded here under Ammophila in the yellow dunes. This is its first Irish record and only the third record for it in the British Isles according to the FRDBI. The notable fungus, Tulostoma brumale (the Winter Stalk Puffball) was also recorded.

Entoloma chalybaeum var. chalybaeum
Hygrocybe conica var. conicoides
Hygrocybe virginea var. ochraceopallida
Marasmius oreades
Melanoleuca cinereifolia
Melanoleuca poliroleuca f. poliroleuca
Psathyrella ammophila
Stropharia halophila
Tulostoma brumale
Geoglossum cookeanum
Site: Leap RC Church  
**Date Visited:** 09/11/2007  
**GridRef:** W212372  
**H:** 2  
**C:** 0  
**E:** 0  
**G:** 0  
**O:** 0  
**IrishScore:** 2  
Small bit of lawn outside the church. Unlikely to be of significant mycological interest.

*Hygrocybe psittacina var. psittacina*  
*Hygrocybe virginea var. virginea*

Site: Rosscarberry Church of Ireland  
**Date Visited:** 09/11/2007  
**GridRef:** W287366  
**H:** 0  
**C:** 0  
**E:** 0  
**G:** 0  
**O:** 1  
**IrishScore:** 2  
No waxcaps were found at all and this site is unlikely to be of significant mycological interest.

*Clitocybe dealbata*  
*Dermoloma cuneifolium var. cuneifolium*  
*Vascellum pratense*  
*Rhytisma acerinum*

Site: Union Hall Church of Ireland  
**Date Visited:** 07/11/2007  
**GridRef:** W207345  
**H:** 1  
**C:** 0  
**E:** 0  
**G:** 0  
**O:** 0  
**IrishScore:** 1  
Minimal interest in terms of waxcaps.

*Hygrocybe chlorophana*

Site: Union Hall RC Church  
**Date Visited:** 07/11/2007  
**GridRef:** W206340  
**H:** 8  
**C:** 0  
**E:** 4  
**G:** 1  
**O:** 1  
**IrishScore:** 15  
A small moss rich churchyard with an interesting mix of waxcaps including *H.flavipes*, *H.irrigata* and *H.helobia*. Many more common species were missing so this site will probably be much better and worth keeping an eye on.

*Dermoloma cuneifolium var. cuneifolium*  
*Entoloma atrocoeruleum*  
*Entoloma conferendum*  
*Entoloma exile*  
*Entoloma jubatum*  
*Hygrocybe chlorophana*  
*Hygrocybe coccinea*  
*Hygrocybe flavipes*  
*Hygrocybe helobia*  
*Hygrocybe insipida*  
*Hygrocybe irrigata*  
*Hygrocybe pratensis*  
*Hygrocybe virginea var. virginea*  
*Rhytisma acerinum*  
*Trichoglossum hirsutum*

**W25**

**Sites Searched:** Dunmanway churches

*Hygrocybe:* 2  
*Clavariaceae:* 0  
*Entolomaceae:* 0  
*Geoglossaceae:* 0  
*Others:* 0
The square is dominated by intensive agriculture so churchyards are likely to be the most interesting sites. Dunmanway C of I church is likely to be a good site but the grass had literally just been cut when visited so there were no species of interest.

**Grassland Target Species Recorded**
- Hygrocybe fornicata
- Hygrocybe quieta

**Site Details:**

**Site:** Dunmanway RC Church  
**Date Visited:** 03/11/2007  
**GridRef:** W237532  
**H:** 2  
**C:** 0  
**E:** 0  
**O:** 0  
**IrishScore:** 4

A large churchyard dominated by graves and unlikely to be of significant mycological interest.

- Armillaria gallica
- Hygrocybe fornicata
- Hygrocybe quieta
- Mucilago crustacea

**W26**

**Sites Searched:** Inchigeelagh Church

**Hygrocybe:** 9  
**Clavariaceae** 2  
**Entolomaceae:** 1  
**Geoglossaceae:** 1  
**Others:** 1

Much of this square is lowland agricultural grassland so churchyards are probably the best sites. There may be some pockets of rough acid grassland on the slopes of Carriganerk but these were not searched.

**Grassland Target Species Recorded**
- Clavulinopsis helvola
- Clavulinopsis luteoalba
- Entoloma conferendum
- Trichoglossum hirsutum
- Hygrocybe ceracea
- Hygrocybe chlorophana
- Hygrocybe coccinea
- Hygrocybe conica var. conica
- Hygrocybe insipida
- Hygrocybe irrigata
- Hygrocybe psittacina var. psittacina
- Hygrocybe reidii
- Hygrocybe virginea var. virginea
- Dermoloma cuneifolium var. cuneifolium

**Site Details:**

**Site:** Inchigeelagh Church  
**Date Visited:** 08/11/2007  
**GridRef:** W225662  
**H:** 9  
**C:** 2  
**E:** 1  
**O:** 1  
**IrishScore:** 14

A small moss rich churchyard with abundant fruiting of waxcaps. There is a good chance that *H.calptriformis* will be found here. Notable were the forests of the common yellow fairy club, *Clavulinopsis helvola*.
Armillaria gallica  
Dermoloma cuneifolium var. cuneifolium  
Entoloma conferendum  
Galerina vittiformis  
Hygrocybe ceracea  
Hygrocybe chlorophana  
Hygrocybe coccinea  
Hygrocybe conica var. conica  
Hygrocybe insipida  
Hygrocybe irrigata  
Hygrocybe psittacina var. psittacina  
Hygrocybe reidi  
Hygrocybe virginea var. virginea  
Clavulinopsis helvola  
Clavulinopsis luteoalba  
Trichoglossum hirsutum  

**W33**

Sites Searched: Castlefreke Dunes, St. Michaels Church, Rathcarberry

Hygrocybe: 9  Clavariaceae 2  Entolomaceae: 4  Geoglossaceae: 0  Others: 1

The Castlefreke dunes are the largest area of semi-natural grassland habitat but were very disappointing. The coastal fringe between the fields and cliffs is a possible habitat but is difficult to access. The areas visited would indicate that there may be some waxcaps here but not many. Churchyards are likely to be an important resource in this square.

**Grassland Target Species Recorded**

Clavulinopsis helvola  
Ramariopsis kunzei  
Entoloma chalybaeum var. chalybaeum  
Entoloma conferendum  
Entoloma poliopus var. poliopus  
Entoloma sericeum  
Hygrocybe chlorophana  
Hygrocybe coccinea  
Hygrocybe conica var. conicoides  
Hygrocybe persistens var. persistens  
Hygrocybe pratensis  
Hygrocybe psittacina var. psittacina  
Hygrocybe punicea  
Hygrocybe reidi  
Hygrocybe virginea var. virginea  
Dermoloma cuneifolium var. cuneifolium

**Site Details:**

Site: Castlefreke Dunes  
Date Visited: 09/11/2007  GridRef: W330343  
H: 4  C: 1  E: 3  G: 0  O: 0  IrishScore: 4

A very large dune system that lacks the wonderful moss covered dune slacks of Inchydoney and Barley Cove. Much of the system is getting a little rank with some significant areas of Bracken and Burnet Rose (*Rosa pimpinellifolia*) which is a problem on dune systems like Whitepark Bay in Northern Ireland. Grazing by horses is improving the habitat but grazing needs to hit this site hard. The only mycological interest at all is in these grazed areas and is not particularly good. The foredunes also did not have *Melanoleuca cinereifolia* and
Psathyrella ammophila which have featured in most of the other dune systems. A disappointing site. Notable species: *Conocybe pubescens*.

Agaricus impudicus  
Clitocybe dealbata  
*Conocybe pubescens*  
*Entoloma chalybaeum var. chalybaeum*  
*Entoloma poliopus var. poliopus*  
*Entoloma sericeum*  
*Hygrocybe conica var. conicoides*  
*Hygrocybe persistens var. persistens*  
*Hygrocybe psittacina var. psittacina*  
*Hygrocybe virginea var. virginea*  
*Panaeolus acuminatus*  
*Stropharia semiglobata*  
*Clavulinopsis helvola*  
*Handkea excipuliformis*  
*Vascellum pratense*  
*Rhopographus filicinus*  
*Phragmidium violaceum*

**Site:** St. Michaels Church, Rathcarberry  
**Date Visited:** 09/11/2007  
**GridRef:** W334363  
**H:** 7  **C:** 2  **E:** 1  **G:** 0  **O:** 1  **IrishScore:** 14

A good moss rich churchyard. Unfortunately the grass had just been cut so the list recorded is not representative of what is there. Notable finds include *Hygrocybe punicea* and the fairy club, *Ramariopsis kunzei*. This site is worth revisiting.

*Dermoloma cuneifolium var. cuneifolium*  
*Entoloma conferendum*  
*Hygrocybe chlorophana*  
*Hygrocybe coccinea*  
*Hygrocybe pratensis*  
*Hygrocybe psittacina var. psittacina*  
*Hygrocybe punicea*  
*Hygrocybe reidii*  
*Hygrocybe virginea var. virginea*  
*Clavulinopsis helvola*  
*Ramariopsis kunzei*

**W35**

**Sites Searched:** Enniskeen RC Church

**Hygrocybe:** 7  **Clavariaceae:** 1  **Entolomaceae:** 2  **Geoglossaceae:** 0  **Others:** 0

The square is dominated by intensive agriculture so churchyards are likely to be the most interesting sites.

**Grassland Target Species Recorded**

*Clavaria fragilis*  
*Entoloma chalybaeum var. chalybaeum*  
*Entoloma poliopus var. poliopus*  
*Hygrocybe ceracea*  
*Hygrocybe chlorophana*  
*Hygrocybe coccinea*  
*Hygrocybe conica var. conica*
Hygrocybe insipida
Hygrocybe quieta
Hygrocybe virginea var. virginea

Site Details:

Site: Enniskeen RC Church
Date Visited: 03/11/2007 GridRef: W354543
H: 7 C: 1 E: 2 G 0 O: 0 IrishScore: 8

A large moss rich churchyard with a high potential for waxcap fungi. Interesting species like Clavaria fragilis were found and this is a possible site for Hygrocybe calyptriformis.

Agaricus dulcidulus
Cystoderma amianthinum
Entoloma chalybaeum var. chalybaeum
Entoloma poliopus var. poliopus
Hygrocybe ceracea
Hygrocybe chlorophana
Hygrocybe coccinea
Hygrocybe conica var. conica
Hygrocybe insipida
Hygrocybe quieta
Hygrocybe virginea var. virginea
Clavaria fragilis
Mucilago crustacea

W43

Sites Searched: Inchydoney Island

Hygrocybe: 5 Clavariaceae 1 Entolomaceae: 2 Geoglossaceae: 1 Others: 0

With not so much land in this square and the rest of the square being dominated by intensive agriculture, Inchydoney Strand will be the best site in this square.

Grassland Target Species Recorded
Clavaria fragilis
Entoloma atrocoeruleum
Entoloma serrulatum
Geoglossum cookeanum
Hygrocybe calciphila
Hygrocybe conica var. conicoides
Hygrocybe insipida
Hygrocybe persistens var. persistens
Hygrocybe virginea var. ochraceopallida

Site Details:

Site: Inchydoney Island
Date Visited: 03/11/2007 GridRef: W408398
H: 5 C: 1 E: 2 G 1 O: 0 IrishScore: 8

The best areas of dune grassland are the moss rich slacks at the eastern end of the strand. This is excellent dune habitat and is good mycologically and should be better for grassland fungi. However, like many Irish dune sites, the waxcaps are totally dominated by Hygrocybe
conica (often var. conicoides) but other species that occur less often in other habitats like *H. persistens* and *H. calciphila* were found. The embryo dunes supported abundant fruiting of *Melanoleuca cinereifolia* and *Psathyrella ammophila*. *Peziza ammophila* which is more rarely recorded in Ireland was also found. Other notable species were *Leucoagaricus leucothites* and *Omphalina subhepatica*.

Clitocybe dealbata
Entoloma atrocoeruleum
Entoloma serrulatum
Hygrocype calciphila
Hygrocype conica var. conicoides
Hygrocype insipida
Hygrocype persistens var. persistens
Hygrocype virginea var. ochraceopallida
Lepiota cristata
Lepista nuda
Leucoagaricus leucothites
Macrolepiota excoriata
Melanoleuca cinereifolia
Melanoleuca excisiss
Mycena pura var. pura
Omphalina subhepatica
Panaeolus acuminatus
Psathyrella ammophila
Stropharia caerulea
Clavaria fragilis
Geoglossum caeruleum
Peziza ammophila
Mucilago crustacea

**W44**

*Sites Searched:* Timoleague churches

*Hygrocybe:* 1  *Clavariaceae:* 0  *Entolomaceae:* 1  *Geoglossaceae:* 0  *Others:* 0

The square is dominated by intensive agriculture and churchyards are likely to be the best sites.

**Grassland Target Species Recorded**

Entoloma incanum

*Site Details:*

**Site:** Timoleague Church of Ireland

**Date Visited:** 03/11/2007  **GridRef:** W472438

**H:** 1  **C:** 0  **E:** 1  **G:** 0  **O:** 0  **IrishScore:** 7

A small moss rich churchyard likely to have more species of interest.

Hygrocype quieta

**W45**

*Sites Searched:* Bandon churches

*Hygrocybe:* 5  *Clavariaceae:* 0  *Entolomaceae:* 0  *Geoglossaceae:* 1  *Others:* 0

The square is dominated by intensive agriculture so churchyards are likely to be the most interesting sites.
Grassland Target Species Recorded
Geoglossum cookeanum
Hygrocybe chlorophana
Hygrocybe coccinea
Hygrocybe conica var. conica
Hygrocybe quieta
Hygrocybe virginea var. virginea

Site Details:
Site:  St. Patrick's RC church, Bandon
Date Visited:  03/11/2007  GridRef:  W492547
H:  4  C:  0  E:  0  G:  1  O:  0  IrishScore:  7

A large churchyard dominated by graves with very little open lawn. Unlikely to be of good mycological interest.

Hygrocybe chlorophana
Hygrocybe coccinea
Hygrocybe conica var. conica
Hygrocybe quieta
Geoglossum cookeanum
Mucilago crustacea

Site:  St. Peter's Church of Ireland,
Date Visited:  03/11/2007  GridRef:  W489547
H:  1  C:  0  E:  0  G:  0  O:  0  IrishScore:  1

A moss rich lawn but with little mycological interest.

Hygrocybe virginea var. virginea
Rhytisma acerinum

W54
Sites Searched:  Ballinspittle RC Church, Garranfeen Strand

Hygrocybe:  1  Clavariaceae:  0  Entolomaceae:  0  Geoglossaceae:  0  Others:  1

The square is dominated by intensive agriculture and Garranfeen Strand and churchyards are likely to be the best sites. Broad Strand near Courtmacsherry could be worth a visit.

Grassland Target Species Recorded
Hygrocybe conica var. conicoides
Dermoloma cuneifolium var. cuneifolium

Site Details:
Site:  Ballinspittle RC Church
Date Visited:  03/11/2007  GridRef:  W588462
H:  0  C:  0  E:  0  G:  0  O:  1  IrishScore:  2

A small moss rich churchyard which should be of moderate waxcap interest. Possibly still too dry for fruiting to begin.
Dermoloma cuneifolium var. cuneifolium
Rhytisma acerinum

**Site:** Garranfeen Strand

**Date Visited:** 03/11/2007  **GridRef:** W534446

**H:** 1  **C:** 0  **E:** 0  **G:** 0  **O:** 0  **IrishScore:** 1

The amount of dune grassland is restricted on this site with the dunes either active mobile dunes or saltmarsh grading into fen. There will be more species of interest here but not many. The embryo dunes supported abundant fruiting of *Melanoleuca cinereifolia* and *Psathyrella ammophila*. The other notable species was *Omphalina subhepatica*.

*Hygrocybe conica var. conicoides*
*Melanoleuca cinereifolia*
*Omphalina subhepatica*
*Psathyrella ammophila*
*Mucilago crustacea*

**W64**

**Sites Searched:** Old Head of Kinsale, White Strand

**Hygrocybe:** 0  **Clavariaceae:** 0  **Entolomaceae:** 1  **Geoglossaceae:** 0  **Others:** 0

The sites visited were very disappointing and the golf course on the Old Head of Kinsale and John’s Fort in Kinsale are likely to be the best sites.

**Grassland Target Species Recorded**

*Entoloma incanum*

**Site Details:**

**Site:** Old Head of Kinsale

**Date Visited:** 03/11/2007  **GridRef:** W625405

**H:** 0  **C:** 0  **E:** 0  **G:** 0  **O:** 0  **IrishScore:** 0

The small areas that are not agricultural grassland are either rank grass or coastal heath and no waxcaps were found at all. The best area is likely to be on the golf course but access was not possible.

*Bolbitius vitellinus*

**Site:** White Strand, Garretstown

**Date Visited:** 03/11/2007  **GridRef:** W607433

**H:** 0  **C:** 0  **E:** 1  **G:** 0  **O:** 0  **IrishScore:** 0

A small highly modified set of dunes and dune grassland. Highly unlikely to be of any significant mycological interest.

*Agaricus bernardii*
*Entoloma incanum*
*Hypholoma fasciculare*
*Lepiota cristata*
Appendix 2 - Species Atlas

The all Ireland species maps contain records from this survey, the Clare Waxcap Survey, the NI Waxcap Survey and other miscellaneous records made by myself or other Northern Ireland Fungus Group members. They are not all inclusive.

**Grassland Target Species**

**Clavaria acuta Fr.**

A white Fairy Club with larger spores than *C.fragilis*

**Clavaria fragilis Holmsk.**

A white Fairy Club often growing in clumps
Clavaria fumosa Fr.
A smoky grey Fairy Club

Clavaria straminea Cotton
A notable Fairy Club with a distinctive yellow base and straw coloured above. Sometimes twisted like a corkscrew.

Clavulinopsis corniculata (Fr.) Corner
A common coraloid Fairy Club
**Clavulinopsis fusiformis (Sowerby) Corner**
A yellow clumped Fairy Club that is most common in acid grassland

**Clavulinopsis helvola (Pers.) Corner**
The most common Fairy Club

**Clavulinopsis laeticolor (Berk. & M.A. Curtis) R.H.**
A Fairy Club that needs to be microscopically checked to distinguish from *C.luteoalba*
**Clavulinopsis luteoalba (Rea) Corner**
A common apricot coloured Fairy Club

**Dermoloma cuneifolium var. cuneifolium (Fr.) Bon**
A light to dark grey coloured species found in unfertilised grasslands. Smells strongly of flour.

**Entoloma asprellum (Fr.) Fayod**
A Leptonia with a brown cap and blue stipe. Similar to *E. poliopus* but with a fertile gill edge.
Entoloma atrocoeruleum Noordel.

A blue black Leptonia with a blue fibrillose stipe. Similar to E. corvinum but with a fertile gill edge.

Entoloma bloxamii (Berk.) Sacc.

A large fleshy blue Entoloma that is unmistakable. A NI Priority species.

Entoloma chalybaeum var. chalybaeum (Pers.) Noordel.

A blue black Entoloma with a polished stipe and blue gills.
Entoloma conferendum (Britzelm.) Noordel.
A common Entoloma with very distinctive spores.

Entoloma corvinum (Kühner) Noordel.
A dark blue Entoloma (cap and stipe) with a sterile gill edge. Very similar to *E. atrocoeruleum* but in West Cork was the more common species of the two.

Entoloma elodes (Fr.) P. Kumm.
Fibrillose cap with a rancid smell and a sterile gill edge.
Entoloma exile (Fr.) Hesler
A Leptonia with a blue grey cap and sometimes a red base to the stipe

Entoloma formosum (Fr.) Fr.
A striking rich brown Leptonia

Entoloma hispidulum (M. Lange) Noordel.
Noted by its fibrillose cap, fertile gill edge and nodulose spores
Entoloma incanum (Fr.) Hesler
A very distinctive Entoloma with a yellow green stipe that turns blue green with handling. Smells of mouse droppings. Also occurs in non-natural habitats.

Entoloma infula (Arnolds & Noordel.) Noordel.
A Nolanea often with a small papilla and thin dark stipe. Similar to E. papillatum but with smaller spores.

Entoloma jubatum Fr.
Similar to the larger E. porphyrophaeum but noted by non-reddish colours, dark striate stem and different cheilocystidia
Entoloma longistriatum var. sarcitulum (Kühner & Romagn. ex Orton) Noordel.

Probably one of the most common Leptonia's in this survey in acid semi-natural grassland. Noted by its brown colours with a striate cap edge.

Entoloma poliopus var. poliopus (Romagn.) Noordel.

A relatively common Leptonia in unfertilised grasslands. With a brown cap, blue stipe and sterile gill edge.

Entoloma prunuloides (Fr.) Quéél.

A chunky Entoloma often quite common in grasslands. Can be quite variable but tastes and smells of flour.
Entoloma sericellum Fr.
A white Leptonia

Entoloma sericeum (Bull.) Fr.
A common brown Nolanea

Entoloma serrulatum (Fr.) Hesler
A blue black Leptonia with a black gill margin. Not uncommon.
Entoloma turci (Bres.) M.M. Moser
A brown Leptonia with a non-striate cap

Geoglossum cookeanum Nannf.
Can be the largest species of earth tongue growing to several centimetres tall

Geoglossum fallax E.J. Durand
The most common earth tongue on acid grassland
**Hygrocybe aurantiosplendens R. Haller Aar.**

A rarer waxcap that is often over-recorded being confused with orange specimens of *H. chlorophana*. Gill trama should always be checked.

**Hygrocybe berkeleyi (P.D. Orton) P.D. Orton & Watling**

Often recorded as *H. pratensis var. pallida*.

**Hygrocybe calciphila Arnolds**

A rare waxcap found on calcareous sites especially in dune systems. Only a few Irish records.
Hygrocybe calyptriformis (Berk. & Broome) Fayod
The flagship species of waxcap. Unmistakable with its pink, conical cap that often splits and curls up.

Hygrocybe cantharellus (Schwein.) Murrill
A waxcap usually found in acid grassland. Noted by its dry, red scurfy cap and decurrent gills.

Hygrocybe ceracea (Wulfen) P. Kumm.
A yellow waxcap - not uncommon
**Hygrocybe chlorophana (Fr.) Wünsche**
The most commonly found waxcap on this survey

**Hygrocybe citrinovirens (Lange) Jul. Schäff.**
Often an early species. Large and lemon yellow.

**Hygrocybe coccinea (Schaeff.) P. Kumm.**
One of the most common red waxcaps
Hygrocybe conica var. conica (Schaeff.) P. Kumm.
Very common blackening waxcap. Very variable but may be more than one species in this group.

Hygrocybe conica var. conicoides (P.D. Orton) Boertm.
Some authors give this variety species rank but only a variety in David Boertmann's book. Usually found in sand dunes.

Hygrocybe flavipes (Britzelm.) Arnolds
Grey waxcap with a pale stipe with a yellow base. Look out for the similar H.lacmus which does not have the yellow base.
Hygrocybe fornicata (Fr.) Singer
A grey to brown species with ascending gills

Hygrocybe glutinipes var. glutinipes (J.E. Lange) R. Haller
Very viscid and smaller than *H. chlorophana*

Hygrocybe helobia (Arnolds) Bon
Often found early in the season. Noted by its scarlet colours, scurfy dry cap and long cells making up the gill trama
**Hygrocybe insipida (Lange ex S. Lundell) M.M. Moser**
Very common small viscid waxcap. Often with very red stipe at apex contrasting with yellow gills.

**Hygrocybe irrigata (Pers.) M.M. Moser**
Grey viscid waxcap surprisingly not found on the Clare survey

**Hygrocybe laeta var. laeta (Pers.) P. Kumm.**
Common in acid grassland but surprisingly only found once
**Hygrocybe miniata (Fr.) P. Kumm.**
Red, dry, scurfy waxcap with distinctive spores

**Hygrocybe nitrata (Pers.) Wünsche**
One of the more unusual species with a strong nitrous smell

**Hygrocybe ovina (Bull.) Kühner**
One of the rarest waxcaps in Ireland. Grey in colour but reddening with a nitrous smell.
**Hygrocybe persistens var. persistens (Britzelm.) Singer**

Often confused with *H. conica* but does not blacken. One of the earlier waxcaps to fruit.

**Hygrocybe pratensis (Pers.) Fr.**

One of the largest waxcaps that can be very abundant especially in upland acid grassland.

**Hygrocybe psittacina var. psittacina (Schaeff.) P. Kumm.**

Usually very common and distinguished by its green colours.
Hygrocybe punicea (Fr.) P. Kumm.
Large and notable with a dull crimson colour and fibrous stipe

Hygrocybe quieta (Kühner) Singer
Noted for its oily smell

Hygrocybe reidii Kühner
Recognised by its honey smell especially if rubbed. Not uncommon
Hygrocybe russocoriacea (Berk. & Mill.) P.D. Orton &
Noted by its amazing smell of cedar wood

Hygrocybe splendidissima (P.D. Orton) P.D. Orton & Watling
Large scarlet waxcap smelling of honey if the stipe is rubbed. Usually found in acid grassland

Hygrocybe virginea var. ochraceopallida (P.D. Orton)
This variety is usually found in calcareous grassland
Hygrocybe virginea var. virginea (Wulfen) P.D. Orton &
One of the most common species of waxcap

Porpoloma metapodium (Fr.) Singer
A notable rare fungus found in unfertilised grassland. Noted by its fleshy blackening fruitbodies with a smell of flour.

Ramariopsis kunzei (Fr.) Corner
A notable Fairy Club. White, clumped, coralloid with small warty spores.
Trichoglossum hirsutum (Pers.) Boud.
An earth tongue with noticeable setae (especially on the stipe) like hairs

Other Species
Boletes and Agarics

Agaricus arvensis Schaeff.
A common agaric with an aniseed smell. Possibly over-recorded mistaken for similar species, but never the less, not uncommon.

Agaricus bernardii Quél.
A white, later dirty brown Agaric found in coastal grasslands in Cork.
**Agaricus campestris L.**  
The common field mushroom

**Agaricus dulcidulus Schulzer**  
A small spored yellowing Agaric previously recorded as *A. semotus*

**Agaricus impudicus (Rea) Pilát**  
A dark red brown Agaric that hardly discolours when sliced
Agaricus urinascens (F.H. Møller & Jul. Schäff.) Singer
More commonly known as *Agaricus macrosporus* that can grow to very large sizes

Agrocybe pediades (Fr.) Fayod
A small Agrocybe with veil remnants at the cap edge and a cellular cap structure.

Armillaria gallica Merxm. & Romagn.
The most common Honey Fungus in much of Ireland with a bulbous base. Not as pathogenic as *A. mellea*. 
Armillaria mellea (Vahl) P. Kumm.
The pathogenic species with a slender cylindrical stipe

Bolbitius vitellinus (Pers.) Fr.
A common species found on decaying grass or dung

Boletus badius Fr.
Common on coniferous trees but also found on deciduous trees
**Boletus edulis Bull.**
The sought after edible bolete with a brown cap and white pores

**Calocybe carnea (Bull.) Donk**
A small pink species not uncommon in grasslands

**Clitocybe dealbata Sowerby**
A very poisonous small white fungus often found in grasslands
**Clitocybe fragrans Sowerby**
Not uncommon in grasslands with a strong smell

**Clitocybe nebularis (Batsch) Quél.**
A common saprophyte in leaf litter. Often appearing late in the season.

**Clitopilus prunulus (Scop.) Fr.**
An ectomycorrhizal species smelling strongly of flour.
Collybia butyracea f. butyracea (Bull.) P. Kumm.
A common saprophyte in leaf litter

Collybia confluens (Pers.) P. Kumm.
A common saprophyte in leaf litter

Collybia dryophila (Bull.) P. Kumm.
A very common species although rarer further north in Ireland. Most common in the heaths here in West Cork
Collybia peronata (Bolton) P. Kumm.
Common saprophyte in leaf litter with a woolly stipe base

Conocybe pubescens (Gillet) Kühner
On dung in grasslands. Has a striate cap when young. Rarely recorded in Ireland

Coprinus atramentarius (Bull.) Fr.
Should never to eaten along with alcohol
**Coprinus comatus (O.F. Müll.) Gray**

The Shaggy Inkcap

**Coprinus disseminatus (Pers.) Gray**

A small inkcap fruiting in large groups on wood

**Coprinus micaceus (Bull.) Fr.**

Grows in clumps on dead wood. With a glistening, micaceus like cap.
**Cortinarius anomalous Fr.**
A variable ectomycorrhizal species

**Cortinarius croceus Fr.**
An ectomycorrhizal species often found in open grassland with no "usual" ectomycorrhizal species nearby. Possibly mycorrhizal with Carex species. Very similar to *C. cinnamomeus*

**Crepidotus mollis (Schaeff.) Fr.**
Found on wood. Lacks a stipe and has a distinctive gelatinous cap
Cystoderma amianthinum (Scop.) Fr.
A common grassland species

Flammulina velutipes (Curtis) Singer
Found on wood with a velvet stipe

Galerina vittiformis (Fr.) Singer
Will be more common as it was not systematically looked for.
**Hebeloma fusisporum Gröger & Zschiesch.**
A small Hebeloma with a very strong sweet smell found here under Alder

**Hebeloma helodes J. Favre**
A thin stemmed, narrow spored Hebeloma with non-dextrinoid spores

**Hypholoma ericaeum (Pers.) Kühner**
Usually found on peaty soils
**Hypholoma fasciculare (Huds.) P. Kumm.**
Very common saprophyte

**Hypholoma sublateritium (Cooke) Sacc.**
More orange than *H. fasciculare*

**Inocybe geophylla var. lilacina Gillet**
Common purple ectomycorrhizal species with brown spore print
**Kuehneromyces mutabilis (Schaeff.) Singer & A.H. Sm.**
Poisonous fungus found in groups on dead wood

**Laccaria amethystina Cooke**
Totally purple in colour and very attractive

**Laccaria fraterna (Cooke & Massee) Pegler**
Found only under Eucalyptus. Very few records for Ireland but known to be spreading quickly in the British Isles.
**Laccaria laccata (Scop.) Fr.**
The Deceiver which as its name suggests is very variable

**Lacrymaria lacrymabunda (Bull.) Pat.**
The Weeping Widow with dark drops on the gills

**Lactarius blennius (Fr.) Fr.**
Very common under beech
Lactarius deliciosus (L.) Fr.
Found under pine - with carrot coloured milk

Lactarius glyciosmus (Fr.) Fr.
A coconut smelling milk cap

Lactarius lacunarum Romagn. ex Hora
Notably found on Salix repens in coastal heath in this survey. Usually in damp woodland
Lactarius quietus (Fr.) Fr.
Very common under Oak. Has a distinctive smell

Lactarius subdulcis (Bull.) Fr.
Very common brown milkcap under beech

Leptota cristata (Alb. & Schwein.) Quél.
A small species with a brown scaly cap and a very strong distinctive smell
Lepista flaccida (Sowerby) Pat.
Common in woodland

Lepista nuda (Bull.) Cooke
Wood Blewit - very common in grassland as well as woods and gardens

Lepista panaeolus (Fr.) P. Karst.
Unusual species of Lepista with grey brown colours
**Lepista sordida (Fr.) Singer**
A small Lepista with purple colours

**Leucoagaricus leucothites (Vittad.) M.M. Moser ex Bon**
A notable record for Ireland of a large distinctive species

**Macrolepiota excoriata (Schaeff.) M.M. Moser**
Large species with a short stipe, thin ring and with stipe covering same colour as background
**Macrolepiota mastoidea (Fr.) Singer**

Similar to the common Parasol but smaller and stipe covering same colour as background. This interpretation includes *M. konradii* and follows the descriptions given Nauta in FAN4.

**Marasmius oreades (Bolton) Fr.**

The Fairy Ring Champignon with a very tough stipe

**Megacollybia platyphylla (Pers.) Kotl. & Pouzar**

A large fungus here found on gorse wood with rhizomorphs at the base of the stipe
Melanoleuca cinereifolia (Bon) Bon
A grey Melanoleuca with grey gills found in embryo dunes

Melanoleuca excissa (Fr.) Singer
A grey Melanoleuca with cystidia that are often septate

Melanoleuca polioleuca f. polioleuca (Fr.) Kühner & Maire
Often recorded as M. melaleuca in the past but the latter lacks cystidia
Mycena adonis var. adonis (Bull.) Fr.
A striking pink Mycena

Mycena epipetrygia var. epipetrygia (Scop.) Gray
Has a cap with a viscid layer that can peel off.

Mycena galericulata (Scop.) Schaeff.
Common on wood
**Mycena leptocephala (Pers.) Gillet**
A grey Mycena with a strong nitrous smell

**Omphalina ericetorum (Bull.) M. Lange**
Often found on peat

**Omphalina subhepatica (Batsch) Murrill**
A small Omphalina with very decurrent gills on dune grassland
Oudemansiella mucida (Schrad.) Höhn.
A very viscid white fungus commonly fruiting on beech trees

Panaeolus acuminatus (Schaeff.) Gillet
Very common "little brown job" with mottled gills

Panaeolus papilionaceus var. papilionaceus (Bull.) Quél.
Very common - includes *P.sphinctrinus*
**Panaeolus semiovatus var. semiovatus** (Sowerby) S. Lundell

A Panaeolus with a ring on the stipe usually on dung

**Pholiota squarrosa** (Weigel) P. Kumm.

A large scaly fungus growing in clumps often found at the base of trees

**Pleurotus ostreatus** (Jacq.) Quél.

Found on wood with a purplish cap
Psathyrella ammophila (Durieu & Lév.) P.D. Orton
Found in embryo dunes

Psilocybe coprophila (Bull.) P. Kumm.
Small fungus on dung

Psilocybe semilanceata (Fr.) P. Kumm.
The Magic Mushroom. A common species with distinctive nipple
Rickenella fibula (Bull.) Raithelh.
Small orange fungus with decurrent gills found in grassland

Rickenella swartzii (Fr.) Kuyper
Small fungus with a distinct black spot in centre of cap and decurrent gills.

Russula atropurpurea (Krombh.) Britzelm.
Common purple Russula here found under Oak
**Russula betularum** Hora
Small red Russula under Birch that can fade to white. Firey taste to the gills

**Russula cyanoxantha** (Schaeff.) Fr.
A variable edible Russula with waxy gills.

**Russula delica** Fr.
Large white Russula with a depressed centre to the cap
Russula fellea Fr.
Yellow Russula smelling of apples found under Beech

Russula mairei Singer
Bright red species with very white gills under beech now known as *R.nobilis*.

Russula nigricans (Bull.) Fr.
Large blackening Russula with very distant gills. Very common
**Russula ochroleuca (Pers.) Fr.**

Very common yellow Russula found under a range of trees

**Russula praetervisa Sarnari**

Pale yellow Russula with a striate cap margin and red at the very base of the stipe

**Russula sanguinea (Bull.) Fr.**

Dry red Russula with a cap that hardly peels under Pine
**Schizophyllum commune (L.) Fr.**

Found on silage bales. Appears to be very common in Clare as these records were made whilst driving and it was not systematically looked for. Can badly affect the quality of the silage

**Stropharia aeruginosa (Curtis) Quél.**

Striking blue green fungus with a permanent ring

**Stropharia caerulea Kreisel**

A species often with blue and yellow colours with numerous chrysocystidia
**Stropharia halophila Pacioni**
Found associated with Ammophila in yellow dunes

**Stropharia pseudocyanea (Desm.) Morgan**
An interesting grassland species often with blue and yellow colours. Has to be checked against *S.caerulea* which has numerous cells at the gill edge filled with yellow material (chrysocystidia)

**Stropharia semiglobata (Batsch) Quél.**
Very common on dung
Suillus grevillei (Klotzsch) Singer
Slippy orange bolete always found under Larch

Tricholoma ustale (Fr.) Quél.
Viscid red brown Tricholoma with a smooth cap under Beech

Tricholomopsis rutilans (Schaeff.) Singer
Distinctive species with a plum coloured cap and custard coloured gills. Always associated with wood although it may be buried.
Aphyllophoroid Species (Brackets, chanterelles, etc)

Clavulina coralloides (L.) J. Schröt.
A white, common, woodland Fairy Club also known as C.cristata

Ganoderma australe (Fr.) Pat.
A large perennial bracket fungus. Often mixed with G.applanatum but the spore sizes are quite different.

Grifola frondosa (Dicks.) Gray
A dramatic fungus with numerous caps growing together on wood. A notable species.
**Hydnum repandum L.**
A common ectomycorrhizal species with spines

**Hymenochaete corrugata (Fr.) Lév.**
Glues branches of hazel together in the canopy to capture the wood before it falls to the ground where there are more wood rottning competitors.

**Postia subcaesia (David) Jülich**
A soft white bracket that can have bluish colours
Stereum hirsutum (Willd.) Gray
Small hairy bracket. Very common

Thelephora penicillata Fr.
White encrusting fungus with fingery projections

Trametes versicolor (L.) Pilát
Common bracket fungus with concentric rings on the cap
Gasteroid species (puffballs, earth stars etc)

**Bovista nigrescens** Pers.
Subglobose fruitbody that can persist in dried state for months. Unlike puffballs, whole fruiting body breaks up to release spores.

**Handkea excipuliformis** (Scop.) Kreisel
A large puffball with a long stipe

**Lycoperdon nigrescens** Wahlenb.
A puffball with black scales found in grassland
Lycoperdon perlatum Pers.
Common woodland puffball

Lycoperdon pyriforme (Schaeff.) Pers.
Puffball always found on wood

Scleroderma citrinum Pers.
The most common earth ball with a very thick "skin"
**Tulostoma brumale Pers.**
Small stalked puffball that could be mistaken for dried rabbit droppings. Rarely recorded in Ireland and the first record for West Cork.

**Vascellum pratense (Pers.) Kreisel**
A common grassland puffball noted by a distinct line between the stipe and main body of the fungus if sliced.

**Jelly Fungi**

**Dacrymyces stillatus Nees**
Small orange jelly found on wood, often on treated, fence posts or benches.
**Tremella mesenterica Retz.**
Yellow brain fungus parasitic on hyphae of Peniophora species

**Ascomycetes**

**Aleuria aurantia Peck**
Often fruits on disturbed ground, paths or gravel

**Ascocoryne sarcoides (Jacq.) J.W. Groves & D.E. Wilson**
Purple jelly like fungi on dead wood
Coprobia granulata (Bull.) Boud.
Found on cattle dung

Cordyceps capitata (Holmsk.) Link
Parasitises species of the truffle, *Elaphomyces*

Cordyceps militaris (L.) Link
The Caterpillar Killer which parasitises moth pupae in grassland
Daldinia concentrica (Bolton) Ces. & De Not.
Jet black hard circular fruitbodies found on trees especially Ash. If sliced, is made up of concentric rings.

Elaphomyces granulatus Fr.
A truffle

Hypoxylon fuscum (Pers.) Fr.
Very common black spots on Hazel
**Leptosphaeria acuta (Moug. & Nestl.) P. Karst.**
Pointy black spots on dead nettle stems. Very common

**Octospora humosa (Fr.) Dennis**
A small orange discomycete found on acid soil with mosses

**Peziza ammophila Durieu & Mont.**
A cup fungus found in embryo dunes with a buried stem in the sand
**Rhopographus filicinus (Fr.) Nitschke ex Fuckel**
A ubiquitous species on Bracken. Will be much more common as not systematically looked for

**Rhytisma acerinum (Pers.) Fr.**
Tar spot fungus found on Sycamore leaves

**Trochila ilicina (Nees) Greenh. & Morgan-Jones**
Very common on Holly leaves
Xylaria hypoxylon (L.) Grev.
Very common on wood

Rusts and Smuts

Melampsoridium betulinum (Pers.) Kleb.
A common rust on Birch leaves

Phragmidium violaceum (Schultz) G. Winter
Very common rust on Bramble. Will be more common as not systematically looked for
**Puccinia lagenophorae Cooke**
A rust on Groundsel

**Puccinia umbilici Guépin**
A rust on Navelwort

**Myxomycetes (Slime Moulds)**

**Mucilago crustacea Mich.**
A slime mould in grass that looks like vomit. Normally lives in the soil digesting bacteria and moves up onto grass to fruit.