

Formica exsecta page

Reports and publications

- Agosti, D. & Hauschteck-Jungen E. (1987) Polymorphism of males in *Formica exsecta* Nyl. (Hym: Formicidae). *Ins. Soc.* **34** (4), 280-290
- Barrett, K.E.J. (1979) *Provisional Atlas of the Insects of the British Isles, Part 5 Hymenoptera: Formicidae, Ants. (2nd Edition)*. Institute of Terrestrial Ecology, Monks Wood Experimental Station, Huntingdon.
- Bliss, P., Katzerke, A. & Neumann, P. (2006). The role of molehills and grasses for filial nest founding in the wood ant *Formica exsecta* (Hymenoptera: Formicidae). *Sociobiology*, **47**, 903–913.
- Brian, M. V. (1952) The structure of a dense natural ant population. *Journal of Animal Ecology* **21**, 12-24.
- Brian, M.V. (1977). *Ants*. London: Collins.
- Brian, M.V. & Brian, A.D. (1951) Insolation and ant population in the West of Scotland. *Trans R. ent Soc. Lond.* **102**, 303-330.
- Brown, M. & Judge, R. (2007). Report: Preliminary investigation into mating patterns and nest structure in *Formica exsecta* in the UK using microsatellite markers. Unpublished.
- Brown, W. & Keller, L. (2000). Colony sex ratios vary with queen number but not relatedness asymmetry in the ant *Formica exsecta*. *Proc. R. Soc. Lond. B*, **267**, 1751–1757.
- Brown, W. & Keller, L. (2002). Queen recruitment and split sex ratios in polygynous colonies of the ant *Formica exsecta*. *Ecol. Letters*, **5**, 102–109
- Brown, W., Liautard, C. & Keller, L. (2002) Sex-ratio dependent execution of queens in polygynous colonies of the ant *Formica exsecta*. *Oecologia*, **134**. 12-17
- Carroll, S. (2008). *Formica exsecta* in Devon in 2008. Unpublished report for Hymettus Ltd.
- Dallas, J.F., Gow, J.L., Jones, A.M. & Young, M.R. (1998). Genetic evidence for social polymorphism in the rare wood ant *Formica exsecta* Nyl. in Scotland. *British Ecological Society Bulletin* SEPG 1528
- England, D. (1996). *Formica exsecta* on Chudleigh Knighton Heath. Report for BSc Hons. Exeter University.
- Felber, K. M. (1997). Habitat preference of the rare red wood ant *Formica exsecta* in Abernethy Forest. Honours degree thesis, University of Aberdeen.

- Fortelius, W. Pamilio, P. Rosengren, R. & Lundstrom, L. (1987). Male size dimorphism and alternative reproductive tactics in *Formica exsecta* ants (Hymenoptera, Formicidae). *Annales Zoologica Fennici* **24**, 45–54.
- Goropashnaya, A., Fedorov, V., Seifert, B. & Pamilo, P. (2007). Phylogeography and population structure in the ant *Formica exsecta* (Hymenoptera, Formicidae) across Eurasia as reflected by mitochondrial DNA variation and microsatellites. *Ann. Zool. Fennici*. **44**, 462-474.
- Gyllenstrand, N, Gertsch, P.J. & Pamilo, P (2002). Polymorphic microsatellite DNA markers in the ant *Formica exsecta*. *Molecular Ecology Notes*, **2**, 67–69.
- Hoare, R.J.B., Hughes, J., Jones, A. & Ramel, G.J.L. (1996). A review of the status of *Formica exsecta* Nylander (Formicidae, Hymenoptera) in Scotland 1994. *The Entomologist*, **115**, 23–29.
- Hughes, J. (2006). A review of wood ants (Hymenoptera: Formicidae) in Scotland. Scottish Natural Heritage Commissioned Report No. 178 (ROAME No. F04AC319).
- Hughes, J. (1997). Review of the distribution of *Formica exsecta* Nylander in Scotland with a survey of sites with no recent records. Scottish Natural Heritage Research Survey and Monitoring Report No 81.
- Hunter, D.P. (2000). Competitive interactions between the wood-ants *Formica exsecta* Nylander and *Formica aquilonia* Yarrow (Hymenoptera: Formicidae). Honours degree thesis, University of Aberdeen.
- James, P. (2008). Baseline data gathering for monitoring *Formica exsecta* in the designated Conservation Zone, Glenmore Forest: A brief account of the methodology and summary findings of fieldwork carried out in August and September 2008. Unpublished.
- Johnstone, J.A. (1998). Quantification of threats to the rare narrow headed wood ant (*Formica exsecta*) at Abernethy Forest. Honours degree thesis, University of Aberdeen.
- Jones, S. (2009). Distribution pattern and the effect of density on survival and resource capture in the Narrow-headed Ant, *Formica exsecta* Nyl. University of East Anglia.
- Kümmerli, R. & Keller, L. (2007a). Contrasting population genetic structure for workers and queens in the putatively unicolonial ant *Formica exsecta*. *Molecular Ecology*, **16**, 4493-4503.
- Kümmerli, R. & Keller, L. (2007b). Reproductive specialization in multiple-queen colonies of the ant *Formica exsecta*. *Behavioural Ecology*, **18**, 375-383.
- Kümmerli, R. & Keller, L. (2008). Reproductive parameters vary with social and ecological factors in the polygynous ant *Formica exsecta*. *Oikos*, **117**, 580-590.

- Kümmerli, R., Helms, K. & Keller, L. (2005). Experimental manipulation of queen number affects colony sex ratio investments in the highly polygynous ant *Formica exsecta*. *Proc. R. Soc. B*, **272**, 1789–1794.
- Liautard, C. & Keller, L. (2001). Restricted effective queen dispersal at a microgeographic scale in polygynous populations of the ant *Formica exsecta*. *International Journal of Organic Evolution*, **55**, 2484–2492.
- Littlewood, N. (2001). Can a habitat suitability model predict and explain the distribution of a rare invertebrate? MSc thesis, University of Aberdeen.
- Littlewood, N.A. & Young, M.R. (2008). A habitat suitability model for the narrow-headed ant, *Formica exsecta*, evaluated against independent data. *Insect Conservation and Diversity* **1**, 108–113
- Maggini, R., Guisan, A. & Cherix, D. (2002). A stratified approach for modelling the distribution of the ant species *Formica exsecta* in the Swiss National Park. *Biodiversity and Conservation*, **11**, 2117–2141.
- Martin, S., Vitikainen, E., Helanterä, H. & Drijfhout F. (2008). Chemical basis of nest-mate discrimination in the ant *Formica exsecta*. *Proc. R. Soc. B*, **275**, 1271-1278.
- Pamilo, P. (1991). Life span of queens in the ant *Formica exsecta*. *Insectes Sociaux*, **38**, 111–119.
- Perrett, J.R. & Stradling D.J. (1997). Population status and reproductive biology of the endangered British ant *Formica exsecta* in Devon. Unpublished report for English Nature.
- Perrett, J.R. & Stradling D.J. (1998). *Formica exsecta*: population census and artificial colony establishment in Devon, 1998. Unpublished report for English Nature.
- Perrett, J.R. & Stradling, D.J. (1999) *Formica exsecta*: Population census and artificial colony establishment in Devon, 1999. Unpublished report for English Nature, 65 pp.
- Perrett, J.R. and Stradling, D.J. (2000) *Formica exsecta*: Population census and artificial colony establishment in Devon, 2000. Unpublished report for English Nature, 41 pp.
- Perrett, J.R. and Stradling, D.J. (2001) *Formica exsecta*: Population census and artificial colony establishment in Devon, 2001. Unpublished report for English Nature, 53 pp.
- Pisarski, B. (1972). La structure des colonies polycaliques de *Formica (Coptoformica) exsecta* Nyl. *Ekologia Polska*, **20**, 111–116.
- Ramel, G. J. L. (1994). The state of *Formica exsecta* on Chudleigh Knighton Heath from a survey between 1/6/94 and 5/7/1994. Report to Devon Wildlife Trust.

Rao, S. (2007). Determining the habitat requirements for the narrow headed ant in Deeside to inform conservation management: Report of findings for key partners and woodland managers. Unpublished.

Sacré, V.M. (1999). Spatial relationships in a wood ant community at Glenmore Forest Reserve. Honours degree thesis, University of Aberdeen.

Seppa, P., Gyllenstrand, N., Corander, J. & Pamilo, P. (2004). Co-existence of the social types: genetic population structure in the ant *Formica exsecta*. *Evolution*, **58**, 2462–2471.

Schutz, M., Kretz, C., Dekoninck, L., Irvani, M. & Risch, A. (2008). Impact of *Formica exsecta* Nyl. on seed bank and vegetation patterns in a subalpine grassland ecosystem. *J. Appl. Entomol.*, **132**, 295-305.

Stradling, D.J. & Hoy, S.P. (1993). The Ant *Formica exsecta* an endangered species. Distribution, Ecology and Conservation. An unpublished report to Worldwide Fund for Nature on Project 199/88.

Stradling, D.J. & Salm, N. (2002) *Formica exsecta*: Population census and artificial colony establishment in Devon, 2002. Unpublished report for English Nature, 23 pp.

Stradling, D.J. (2003) *Formica exsecta*: Population census in Devon, 2003. Unpublished report for English Nature, 17 pp.

Stradling, D.J. (2003) Survey for the narrow-headed ant (*Formica exsecta*) at the A38/B3344 and A38/A382 junctions, Devon. August/September 2003. Unpublished report to Parsons Brinckerhoff for the Highways Agency 18 pp.

Stradling, D.J. (2004) *Formica exsecta*: Population census in Devon, 2004. Unpublished report for English Nature, 24 pp.

Stradling, D.J. (2005) *Formica exsecta*: Population census in Devon, 2005. Unpublished report for English Nature, 24 pp.

Stradling, D.J. (2005) Survey for the narrow-headed ant (*Formica exsecta*) at the A38/B3344 and A38/A382 junctions, Devon. August/September 2005. Unpublished report to Parsons Brinckerhoff for the Highways Agency 23 pp.

Sundstrom, L., Keller, L. & Chapusiat, M. (2003). Inbreeding and sex-biased gene flow in the ant *Formica exsecta*. *Evolution*, **57**, 1552–1561.

Tuddenham, A. (1999). Chudleigh Knighton Heath 4th Management plan 01/04/1999-31/03/2004. Unpublished report for Devon Wildlife Trust.

Yarrow, I.H.H. (1954). *Formica exsecta* Nylander (Hym., Formicidae) in the British Isles. *The Entomologist's Monthly Magazine*, **90**, 183–185.