# Natur Gwynedd species and habitat relationships

HAP a	Associated SAP b	Other Associated species c	Associated HAPs d	
Upland oakwoods	Bats Pine marten Green woodpecker Bluebell	Red squirrel*# Square-spotted clay*# A mason bee ( <i>Osmia parietina</i> )*# Pied flycatcher	Wet woodlands Upland mixed ashwoods Scrub woodlands Veteran trees, lowland wood-pasture and parkland Bracken+	Coniferous woodland+
Wet woodlands	Bats Lesser horseshoe bat Otter Green woodpecker Newts		Upland oakwoods Upland mixed ashwoods River corridors Scrub woodlands Wetlands	
Upland mixed ashwoods	Hazel dormouse Pine marten Bats Green woodpecker Bluebell	Red squirrel*#	Upland oakwoods Wet woodlands Veteran trees, lowland wood-pasture and parkland Bracken+	Coniferous woodland+
Scrub woodlands	Pine marten Otter Green woodpecker		Upland oakwoods Wet woodlands Upland mixed ashwoods Veteran trees, lowland wood-pasture and parkland Bracken+	

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HAP a	Associated SAP b	Other associated species c	Associated HAPs d	
Veteran trees, lowland wood-pasture and parkland	Polecat Bats Farmland birds Newts Bluebell Golden hair lichen	High brown fritillary*#	Upland oakwoods Wet woodlands Upland mixed ashwoods Scrub woodlands Lowland meadows and pasture	
Coniferous woodland+	Polecat Pine marten Nightjar	Red squirrel*#	Upland oakwoods Upland mixed ashwoods Bracken+	
Arable field margins	Brown hare Bats Polecat Farmland birds Lapwing Twite	Sword-grass*#	Cloddiau Hedgerows Lowland heathland Maritime cliff and slopes	
Bracken+	Nightjar Bluebell		Upland oakwoods Upland mixed ashwoods Scrub woodlands Coniferous woodland+ Upland heathland	Inland rock, quarries, mines and screes

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HAP a	Associated SAP b		Other associated species c	Associated HAPs d	
Cloddiau	Lesser horseshoe bat Bats Barn owl Chough Farmland birds Adder	Newts Bluebell	Song thrush*# Reed bunting*# Slow worm Square-spotted clay*#	Arable field margins Lowland heathland Lowland dry acid grassland Lowland meadows and pasture Hedgerows	Transport corridors
Lowland heathland	Bats Farmland birds Nightjar Chough Twite Adder	Bumblebees Marsh Fritillary Hornet robberfly Pillwort Golden hair lichen	Grass snake Common lizard Silver studded blue*# Narrow-bordered bee hawkmoth*#	Arable field margins Cloddiau Upland heathland Lowland dry acid grassland Lowland meadows and pasture	Hedgerows Maritime cliff and slopes Rhos pasture
Upland heathland	Brown hare Farmland birds Lapwing Chough Twite Ring ouzel	Adder Ashworth's rustic	Stonechat Hen harrier# Snipe Lunar yellow underwing*# Sword-grass*# Weaver's wave	Lowland heathland Inland rock, quarries, mines and screes Wetlands Lakes, ponds and ditches Bracken+	
Inland rock, quarries, mines and screes	Lesser horseshoe bat Bats Chough Ring ouzel			Upland heathland Bracken+	

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HAP a	Associated SAP b		Other associated species c	Associated HAPs d	
Lowland dry acid grassland	Bats Farmland birds Nightjar Lapwing Chough Adder	Bumblebees Hornet robberfly	Lunar yellow underwing*# Sword-grass*# High brown fritillary*# A mason bee ( <i>Osmia parietina</i> )*#	Cloddiau Lowland heathland Lowland meadows and pasture Hedgerows Rhos pasture	
Lowland meadows and pasture	Bats Brown hare Polecat Farmland birds Barn owl Lapwing	Twite Adder Bumblebees Hornet robberfly Waxcap fungi		Cloddiau Lowland dry acid grassland Hedgerows Rhos pasture	
Hedgerows	Hazel dormouse Bats Lesser horseshoe bat Polecat Farmland birds Newts	Adder Bluebell Golden hair lichen	Red squirrel*# Square-spotted clay*#	Arable field margins Cloddiau Lowland dry acid grassland Lowland meadows and pasture Transport corridors	Rhos pasture
Transport corridors	Otter Bats Polecat Barn owl Bluebell			Cloddiau Hedgerows	

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HAP a	Associated SAP b	Other associated species c	Associated HAPs d	
Buildings	Lesser horseshoe bat Bats Polecat Barn owl		Built up areas and gardens+	
Built up areas and gardens+	Bats Farmland birds Newts Adder Bumblebees Waxcap fungi		Hedgerows Buildings Lakes, ponds and ditches	
Mudflats	Otter Farmland birds		Coastal saltmarsh Coastal and floodplain grazing marsh Maritime cliff and slopes Saline lagoons Seagrass beds	Sheltered muddy gravels Strandlines Coastal vegetated shingle+
Maritime cliff and slopes	Polecat Chough Bumblebees Grey bush cricket Golden hair lichen A weevil ( <i>Sitona gemellatus</i> )	A ground beetle ( <i>Tachys micros</i> )* A mason bee ( <i>Osmia xanthomelana</i> )* Silver studded blue*# Narrow-bordered bee hawkmoth*# A cranefly ( <i>Symplecta novaezemblae</i> ) Transparent burnet	Arable field margins Mudflats Sheltered muddy gravels Coastal vegetated shingle+ Lowland heathland	

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HAP a	Associated SAP b		Other associated species c	Associated HAPs d	
Coastal and floodplain grazing marsh	Otter Water vole Brown hare Bats Polecat Farmland birds	Lapwing Twite Newts Whorl snails	Greenland White-fronted geese	Mudflats Coastal sand dunes Coastal saltmarsh River corridors Rhos pasture	Wetlands Lakes, ponds and ditches
Coastal sand dunes	Polecat Farmland birds Nightjar Twite Chough Bumblebees	Marsh fritillary	Silver studded blue*# Lunar yellow underwing*#	Saline lagoons Coastal and floodplain grazing marsh Strandlines Coastal saltmarsh Sabellaria alveolata reefs	Coastal vegetated shingle+
Sabellaria alveolata reefs				Coastal sand dunes Sublittoral sands and gravels Horse mussel reefs Sheltered muddy gravels	
Sheltered muddy gravels	A red alga (Anotrichium barbatum)		Shore crab Velvet swimming crab Brown seaweeds	Mudflats Maritime cliff and slopes Sabellaria alveolata reefs Sublittoral sands and gravels Horse mussel reefs	Seagrass beds Maerl beds

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HAP a	Associated SAP b	Other associated species c	Associated HAPs d	
Strandlines	Twite	Ringed plover	Mudflats	
	A ground spider (Haplodrassus minor)	Dunlin	Coastal sand dunes	
		Knot	Coastal saltmarsh	
		Sanderling	Coastal vegetated shingle+	
Coastal	Otter		Mudflats	
Saltmarsh	Farmland birds		Coastal and floodplain grazing	
	Lapwing		marsh	
	Twite		Coastal sand dunes	
			Strandlines	
			Seagrass beds	
Tidal rapids			Horse mussel reefs	
'			Maerl beds	
			Sublittoral sands and gravels	
Horse mussel			Tidal rapids	
reefs			Maerl beds	
			Sabellaria alveolata reefs	
			Sublittoral sands and gravels	
			Sheltered muddy gravels	

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Seagrass			Saline lagoons	
beds			Coastal saltmarsh	
			Mudflats	
			Sheltered muddy gravels	
Maerl beds			Saline lagoons	
			Tidal rapids	
			Sheltered muddy gravels	
			Horse mussel reefs	
Saline lagoons				
_			Maerl beds	
			Seagrass beds	
			Mudflats	
			Coastal sand dunes	
Sublittoral			Maerl beds	
sands and			Sabellaria alveolata reefs	
gravels			Horse mussel reefs	
			Tidal rapids	
			Sheltered muddy gravels	

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HAP a	Associated SAP b		Other associated species c	Associated HAPs d	
Coastal vegetated shingle+	Nightjar Twite Bumblebees A ground spider ( <i>Haplodrassus minor</i> )			Coastal sand dunes Strandlines Mudflats Maritime cliff and slopes	
River corridors	Otter Water vole Polecat Lesser horseshoe bat Bats Nightjar Salmonids Lampreys Freshwater pearl mussel Whorl snails Floating water plantain			Wet woodlands Coastal and floodplain grazing marsh Wetlands Lakes, ponds and ditches	
Rhos pasture	Water vole Bats Lesser horseshoe bat Barn owl Farmland birds Lapwing	Marsh fritillary	Narrow-bordered bee hawkmoth*# Sword-grass*#	Arable field margins Cloddiau Coastal and floodplain grazing marsh Hegerows Lakes, ponds and ditches	Lowland dry acid grassland Lowland meadows and pasture Wetlands
Wetlands	Water vole Otter Bats Brown hare Polecat Farmland birds Newts Marsh fritillary Whorl snails Slender green feather moss		Narrow-bordered bee hawkmoth*# A silverfly ( <i>Acrometopia wahlbergi</i> ) Bog bush cricket A beetle ( <i>Chlaenius tristis</i> ) Reed bunting*# Hen harrier#	Wet woodlands River corridors Rhos pasture Lakes, ponds and ditches Coastal and floodplain grazing marsh	

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HAP a	Associated SAP b	Other associated species c	Associated HAPs d	
Lakes, ponds and ditches	Otter Water vole Salmonids Lampreys Arctic charr Newts Dragonfly/damselfly species Pillwort Floating water plantain		River corridors Rhos pasture Wet woodlands Coastal and floodplain grazing marsh	
Other	Harbour porpoise Marine animals Lampreys Salmonids Commercial fish			

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