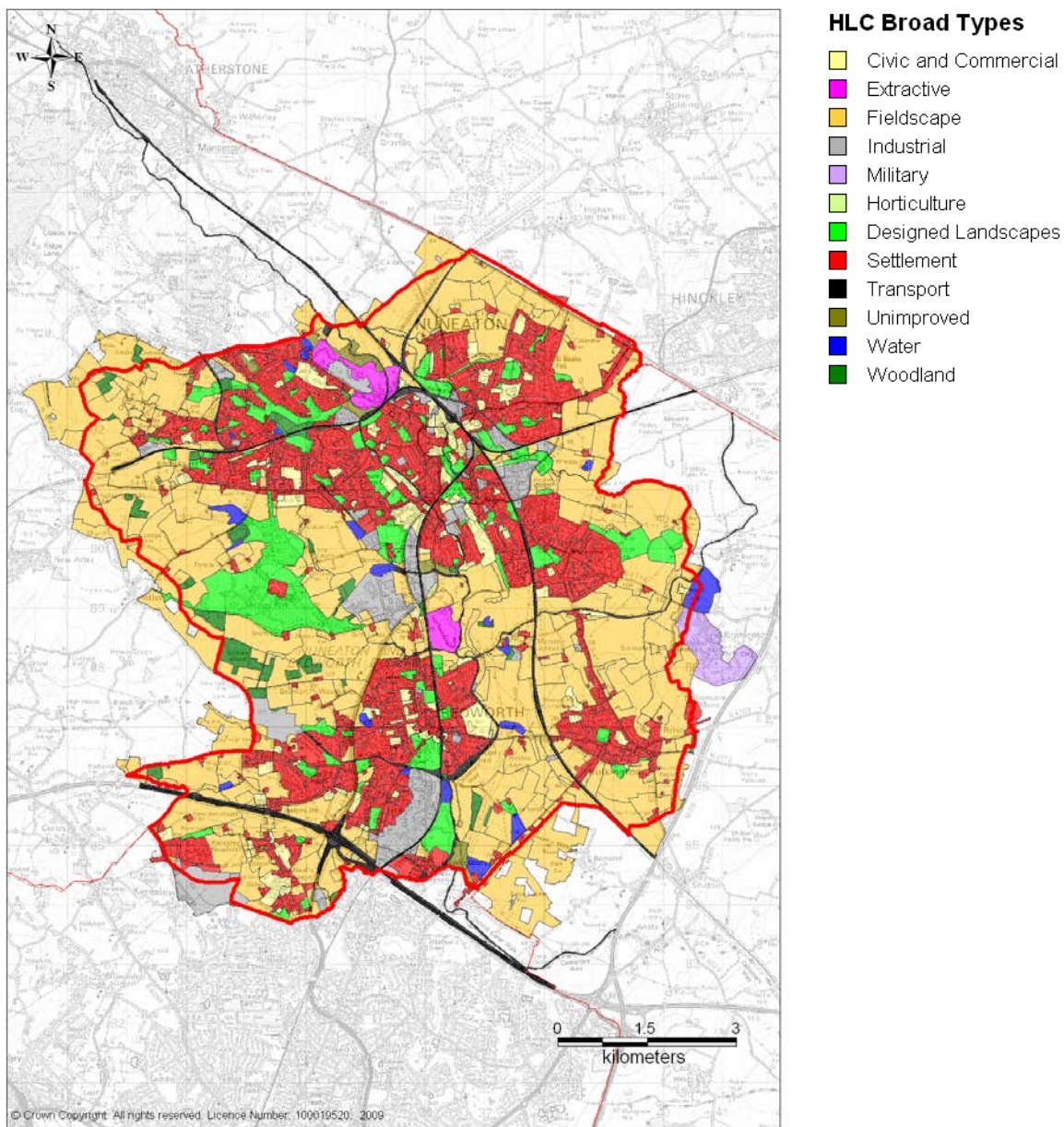
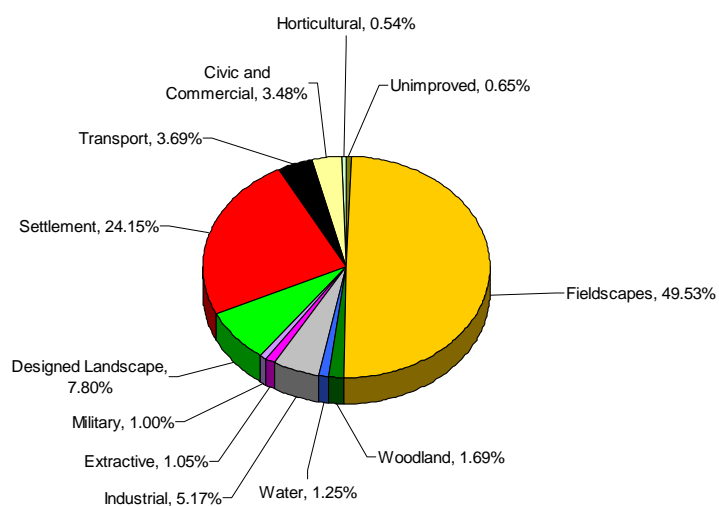


## Map of Nuneaton and Bedworth HLC Broad Types

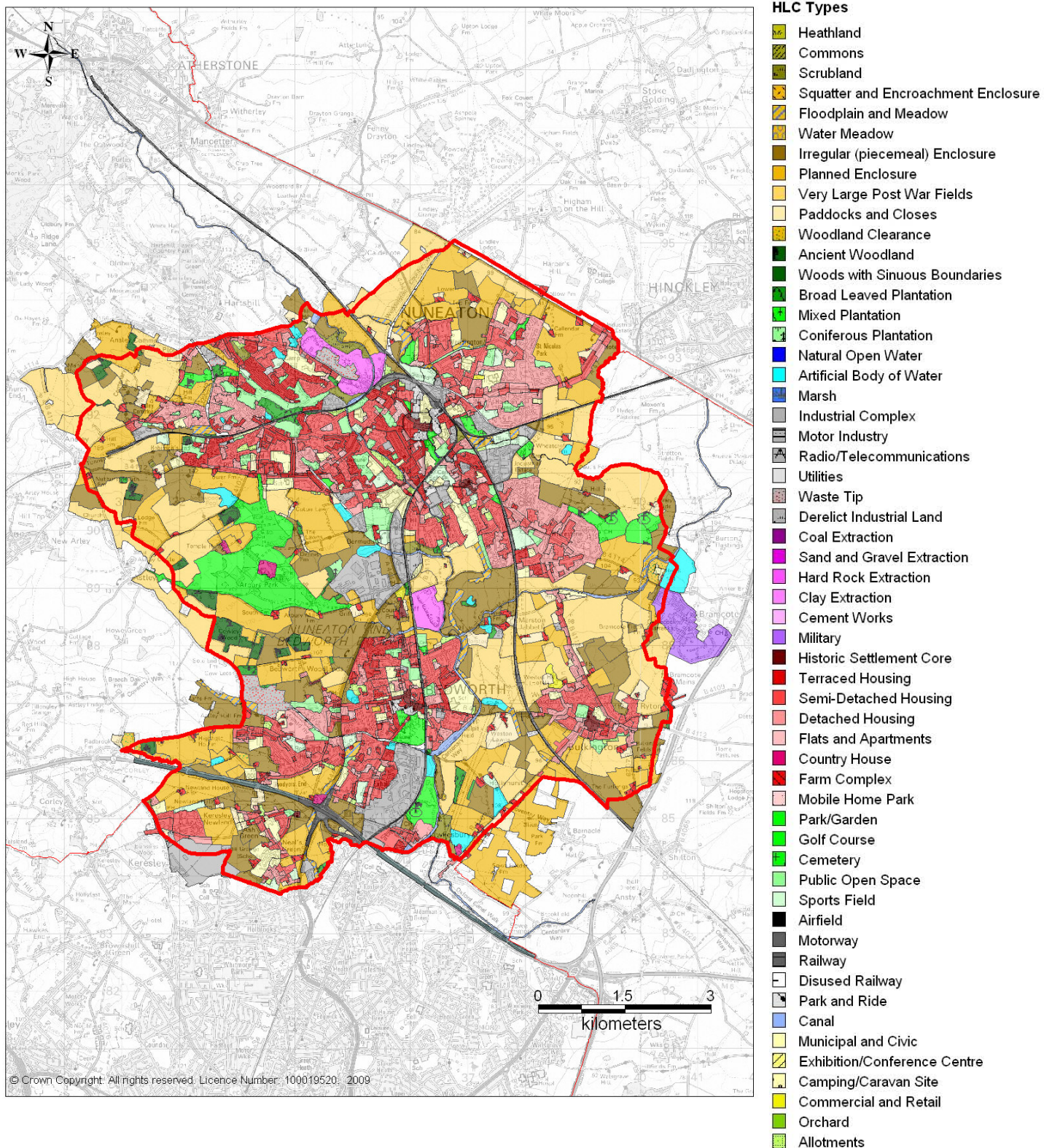


## Nuneaton and Bedworth HLC Broad Type Statistics

HLC Broad Type	Total Area (ha)	Percentage of District
Unimproved	57.35	0.65 %
Fieldsapes	4339.82	49.53 %
Woodland	148.25	1.69 %
Water	109.37	1.25 %
Industrial	453.15	5.17 %
Extraction	92.01	1.05 %
Military	87.29	1.00 %
Designed Landscapes	683.08	7.8 %
Settlement	2115.70	24.15 %
Transport	323.57	3.69 %
Civic and Commercial	304.94	3.48 %
Horticultural	47.30	0.54 %



## Map of Nuneaton and Bedworth HLC Types



## Historic Landscape Character Analysis

### Unimproved

Very little unimproved land is found in the Borough with most of the present areas being scrub growth on filled-in and undeveloped old extractive works.

In terms of previous unimproved land there were some large areas of common in the north west of the Borough at Galley Common and in the south west at Bedworth Heath.

### Fieldscape

The patterns of fields making up the Borough form a varied mix of fieldscape types including irregular, planned and some very large post-war fields.

There is no clear pattern of particular areas of character in respect of fieldscapes and this may be a reflection of the amount of change that has taken place in the Borough in the last few centuries, largely as a result of industrial development, extraction works and urban expansion.

For example in the 1880s there were around 7243 ha of fieldscapes making up 83% of the Borough. This demonstrates the fact that over 40% of the Borough's fieldscapes have developed into other HLC types in the last 120 years alone.

Some very general patterns of fieldscapes can be seen. For example, about half are irregular and half are planned. The planned enclosures appear to lie near the urban expansion although there are some exceptions such as at Bulkington and the Whitestone area in Nuneaton. The irregular, and possibly the older landscape, appears in the east of the Borough. This may be because it is in an area away from the common, coalfields and urban development.

### Woodland

There is very little woodland in the Borough. Most can be found just outside

Arbury Park with a few small pockets elsewhere. The woodland to the south and west of Arbury Park is ancient woodland and was once much more extensive as a swathe around the park, but this has been gradually eroded or assarted away.

### Water

The River Anker passes through Nuneaton heading northwest.

A number of fishing lakes are found in the south and east of the Borough.

Some artificial ponds and water features are found relating to the canals and extractive areas.

### Industrial

The industrial past has altered and shaped the Borough significantly especially in terms of coal mining and other extractive industry. Other historic industries include the Chilvers Coton pottery industry dating back to the medieval and post medieval periods once formed a large area to the south west of Nuneaton (Mayes and Scott 1984).

The present industrial element of the Borough is relatively high at 5% of the Borough area compared to 2% for the whole of Warwickshire. Although most of the industrial areas are relatively new industrial estates such as Exhall Industrial Estate and Bermuda Business Park, they are often on the site of old coal mines and workings. The distribution of industrial areas in the Borough relates quite closely to the pattern of the railways.

### Extractive

No doubt the greatest impact on the landscape of the Borough is the result of mineral extraction from both coal and hard rock. These have left their mark on the Borough with very large areas excavated and large mounds left nearby, 'Mount

Judd' in particular dominates the skyline in the Borough.

Coal mining has taken place in the Borough from the medieval period onwards with some evidence of Roman exploitation. A string of coal mines once existed running from south of Bedworth to north west of Nuneaton following the Warwickshire coal seam (Grant 1982). No active coal mining remains in this area but the effect this has had on the landscape is obvious and has shaped the pattern of transport links, the settlement expansion of Nuneaton and Bedworth and the large amount of industrial areas.

Present extraction sites are made up of two large areas of hard rock extraction (Judkins and Griff Quarries) almost 100 ha in extent. Some of the area near this extraction is being used as a waste tip while other areas have been filled and left to form scrub.

## **Military**

The only military site in the Borough is a small part of Gamecock Barracks at Bramcote which is the home of the 30th Signal Regiment. Gamecock Barracks is on the site of the Second World War RAF Bramcote training airfield. Most of the barrack site is within Rugby Borough.

## **Designed Landscapes**

Designed landscapes are dominated by Arbury Park, which was at one time much larger and, in the medieval period, once formed part of a deer park.

Smaller parks and gardens can be found scattered throughout the urban parts of the Borough with the Miners Welfare Park at Bedworth of some note.

There are also three golf courses.

## **Settlement**

There are four main historic cores; Nuneaton, Attleborough, Bedworth and

Bulkington. The cores of all of these date back to the medieval period.

A large part of Nuneaton has been redeveloped but what remains from the early 20<sup>th</sup> century settlement is mainly terraced housing towards the centre of the town that also stretches out towards the west and a little to the south. Other areas of terraced housing developed separately at Chilvers Coton and Hartshill. All around the outside of this terraced housing semi-detached housing was created in the inter war or early 1950s period. In the late 20<sup>th</sup> century this was all linked together, mostly with more modern terraced housing estates, to form the much larger settlement area of Nuneaton. Strips of detached housing were established along the roads at the very edge of Nuneaton. Finally, in the late 20<sup>th</sup> century mostly detached with some semi-detached housing expanded Nuneaton even further out to the suburbs of Whitestone, Horeston Grange, St Nicholas Park, Chilvers Coton and Camp Hill. Modern terraced housing is found at Camp Hill, Stockingford and the Chilvers Coton area.

Bedworth had a similar development to Nuneaton with terraced housing near the centre and stretching out from there, followed by mainly semi-detached inter war/early 1950s infill. Subsequent development has focussed on the west and south linking Bedworth with Exhall and almost reaching to Coventry itself.

Bulkington is a much later developed area. Some inter war or early 1950s strips of detached and semi-detached housing stretched out towards Nuneaton. Later modern estates developed around Bulkington's historic core – again mainly semi-detached with some detached housing.

In terms of rural settlement there are a number of pre 1880s farmsteads scattered throughout the rural part of the Borough.

A greater number of farmsteads are found on the western side of the Borough, with fewer in the east and north. One or two more modern farms are found on the edge of the Borough including the large Bramcote Mains farm which appears to

have diversified into a fishing and off-road activity centre.

There are a few country houses in the Borough including Arbury Hall, country house on the site of a medieval priory and still in its context of a large 18<sup>th</sup> century designed landscape. Exhall Hall has been subsumed and enclosed by Junction 3 of the M6. Hawksbury Hall has been influenced by coal mining and has scrub surrounding most of it.

## Transport

Canals were established to transport coal to the rest of the country. The Oxford Canal, one of the earliest canals in the country designed to connect the Midlands with London via the River Thames, started here at Hawksbury Junction in the 1770s.

The Coventry Canal followed this and was built in 1771. The Ashby de la Zouche Canal was then constructed in 1804 to link the Coventry Canal and the Ashby coal and lime extraction areas in Leicestershire.

Small canal arms from the Coventry Canal that linked it to the coal mining areas still exist.

Railways connected Nuneaton and Bedworth in the mid 19<sup>th</sup> century with links being made between major towns and cities in the Midlands particularly Coventry, Birmingham, Stafford and Rugby. Later,

direct links were made between Nuneaton, Birmingham and Leicester.

Some dismantled railways remain in the Borough; some are industrial branches to the old coalfields while others are railways that have closed.

In terms of later 20<sup>th</sup> century transport, the M6 motorway passes through the southern part of the Borough with Junction 3 linking to the main communities.

## Civic and Commercial

Most of the municipal and civic as well as commercial areas are found in the Nuneaton area with very little in Bedworth.

The George Eliot Hospital is a large hospital at Nuneaton and there are a number of schools in Nuneaton and Bedworth.

There is a fairly large commercial/retail area in the centre of Nuneaton redeveloping part of its historic core with others found on the southern and eastern edges.

## Horticulture

There is little horticulture in the Borough with no orchards recorded and just a small number of allotments scattered throughout the urban areas of Nuneaton, Bedworth and Bulkington.

## North Warwickshire District

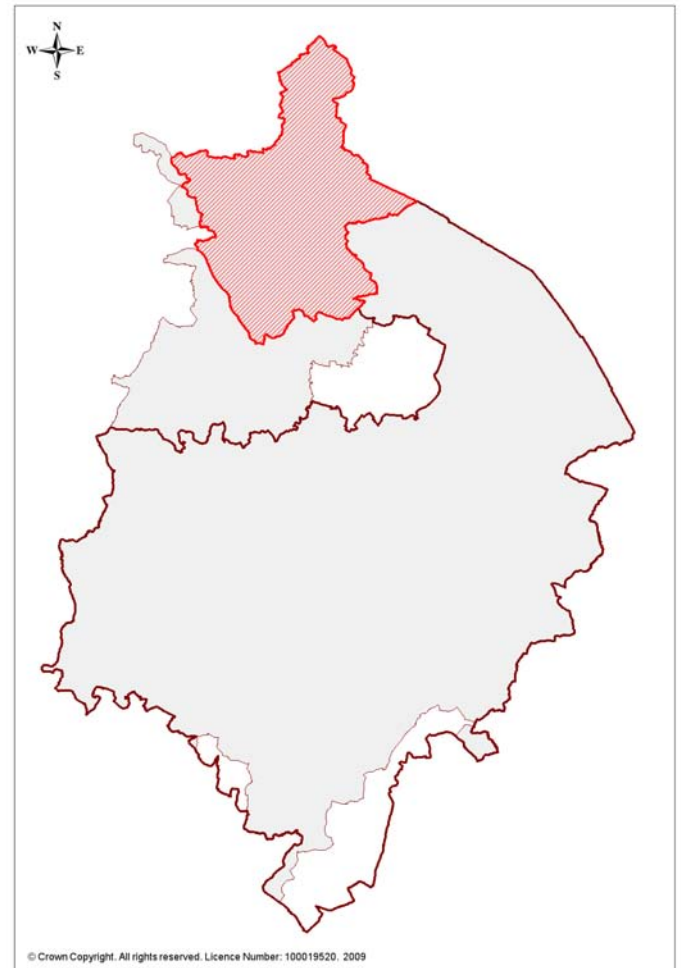
### Introduction

North Warwickshire District was created on 1 April 1974 by a merger of the Atherstone Rural District and parts of the Meriden Rural District

The District is 28,516 hectares in size with a population of 62,200 people. This gives a density of 218 people per square kilometre and makes it the second least populated district in Warwickshire.

North Warwickshire is a mostly rural area with several small towns with the main town of Atherstone where the council is based while other significant places include Coleshill, Polesworth and Kingsbury. The area historically had a large coal mining industry, but this has almost died out apart from the economically very successful Daw Mill. The District is relatively remote from the rest of Warwickshire, as the county is almost split in two by the West Midlands County and Nuneaton and Bedworth.

It borders the Warwickshire district of Nuneaton and Bedworth to the east, the county of Leicestershire to the north-east, Staffordshire to the north-west, and Coventry and Solihull to the south and south-west.



## Summary of Historic Landscape Character

North Warwickshire is very much a rural district with over 70% made up of fieldscapes and the figure is closer to 85% if account is taken of other 'rural' landscape types such as woodland, water, designed landscapes and unimproved land.

Consequently, settlement forms a minor part of the District with only a few larger settlements such as Atherstone and Polesworth, the rest being small villages and scattered farmsteads.

The unique geology of the District has shaped landscape development, especially in terms of human interaction with that landscape. For example, the presence of coal and hard rock in North Warwickshire led to exploitation that accelerated with the industrial revolution. However, only one active coal mine remains, Daw Mill. Other extraction continues at some scale such as hard rock at Purley, Mancetter and Hartshill, clay just south of Tamworth and sand and gravel in the Tame Valley area.

These works have impacted on the landscape, leaving behind derelict land such as Baddesley Colliery, large extraction pits some being filled in with waste, others left to form scrub and in the case of sand and gravel extraction water filled pits that have become features of Country Parks (Kingsbury Water Park) and Nature Reserves (Middleton Lakes and Alvecote Pools).

The industrial past also impacted in terms of transport links in the District with the Coventry Canal and Birmingham and Fazeley Canal both passing through the District in the late 18<sup>th</sup> century and connecting industrial areas to large settlements. Railways formed the next phase with a number of lines passing through from Nuneaton to Tamworth and connecting to Birmingham.

The level of industrial activity in North Warwickshire, although in decline compared to the previous few centuries, still remains above average for the county. Most of this is made up of huge modern

distribution parks such as Hams Hall and Birch Coppice together with large industrial estates on the edge of the major settlements.

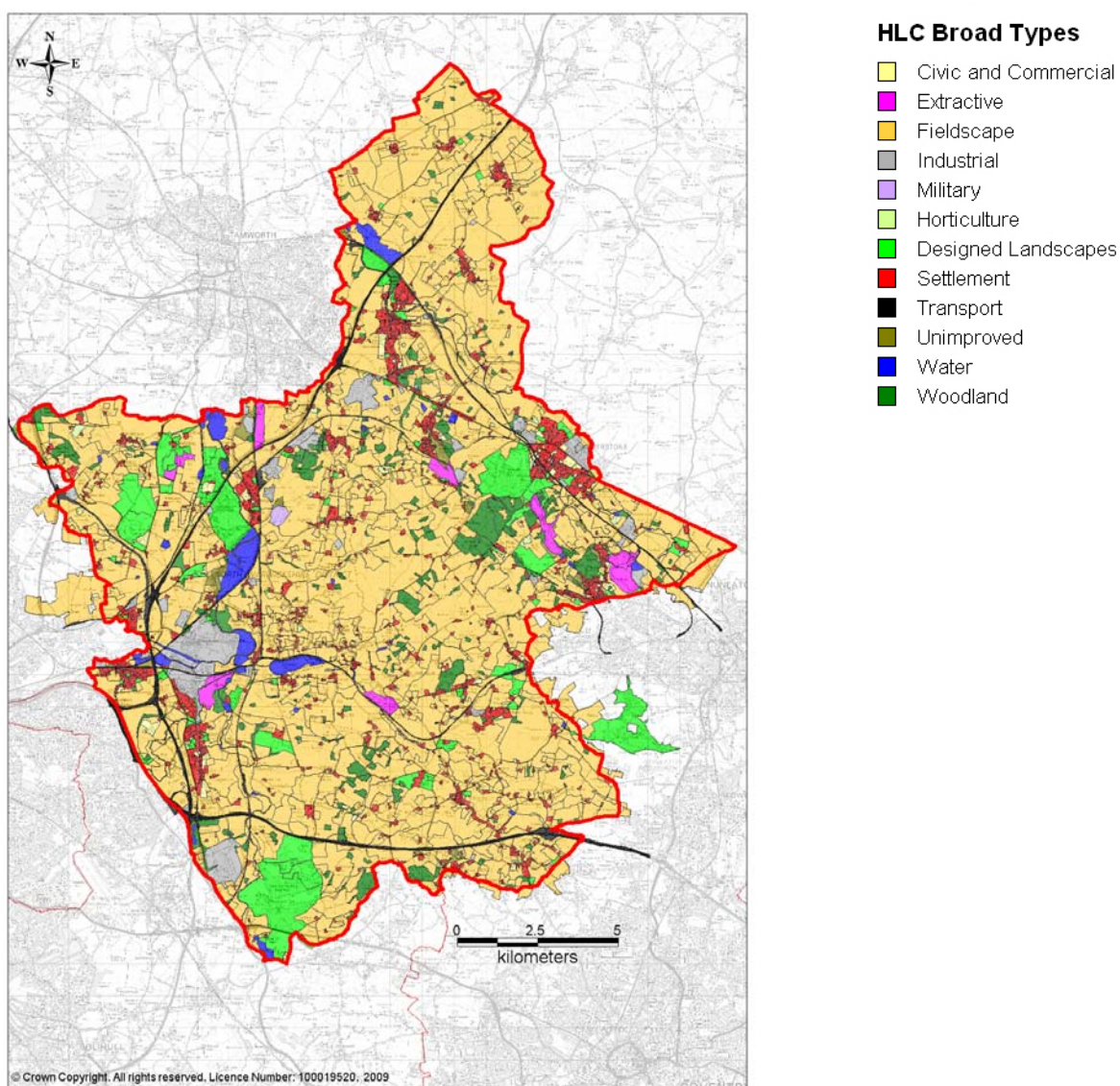
Despite this industrial and extractive impact, the main landscape feature of the District is fields. The majority of these are very large post war fields with some piecemeal enclosure scattered through the District. There is much less planned enclosure when compared to other field types and other parts of the county.

Another feature of the District is the above average amount of unimproved land. This is partly due to extractive activity leaving scrub and partly due to the remaining common and heathland forming some of the largest remaining examples in the county at Baddesley and Baxterley. Encroachment onto common in this area and other parts of the District is visible in settlement patterns and names and the remaining encroachment and squatter enclosure such as at Corley Moor.

The District also has slightly more woodland than average with some large areas of ancient woodland such as Bentley Park/Monks Park Wood, but most are small patches of woodland scattered throughout the District. Previously woodland formed a much larger feature and this has been slowly assarted and cleared from the medieval period onwards.

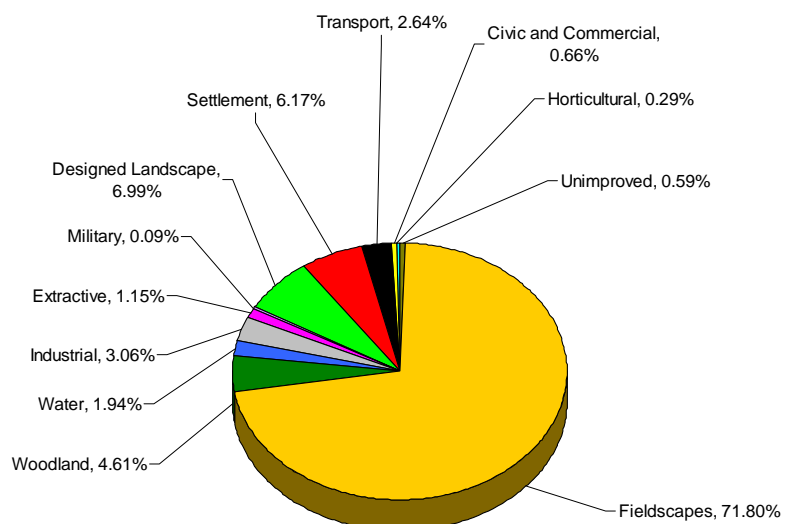
North Warwickshire also has a large number of designed landscapes. Most of these are golf courses, many of which are on the sites of historic parks. A few large historic parks and gardens do survive in the District as well as evidence of older, medieval, deer parks that once formed much larger areas.

## Map of North Warwickshire HLC Broad Types

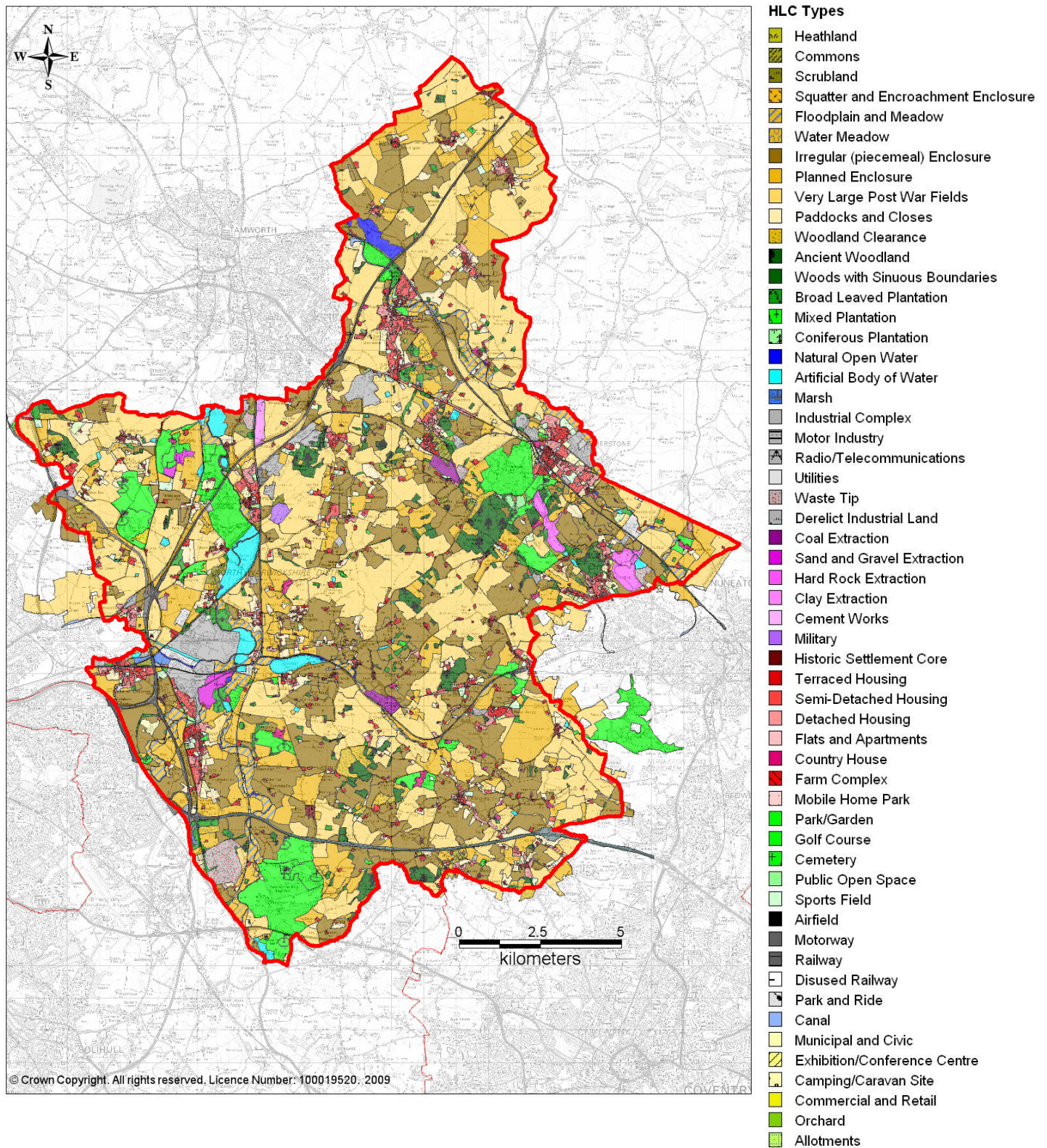


## North Warwickshire HLC Broad Type Statistics

HLC Broad Type	Total (ha)	Area	Percentage of District
Unimproved	175.23		0.59%
Fieldsapes	21242.41		71.80%
Woodland	1365.03		4.61%
Water	572.83		1.94%
Industrial	905.02		3.06%
Extraction	340.55		1.15%
Military	27.94		0.09%
Designed Landscapes	2068.18		6.99%
Settlement	1825.38		6.17%
Transport	780.08		2.64%
Civic and Commercial	196.63		0.66%
Horticultural	85.1		0.29%



## Map of North Warwickshire HLC Types



## Historic Landscape Character Analysis

### Unimproved

There is an above average amount of unimproved land in North Warwickshire District when compared to the county as a whole. Part of this is related to the high level of extractive activity that results in large areas of land being left to scrub. Good examples of this are found at Mancetter and Hartshill quarries. However, the other reason for the large amount of unimproved land is the fairly extensive remains of common land that once existed in North Warwickshire. This also includes the largest surviving patch of heathland in Warwickshire, albeit only 3.18 hectares in size, at Baddesley Ensor.

Patches of common survive at Baddesley, Baxterley, Corley and Chapel Green. Some of these like Corley Moor and Chapel Green have squatter and encroachment enclosure around the edge of the surviving common with detached farmsteads at the very edge of the common. Corley Moor also has more substantial settlement on the south and eastern side; some of this dates to the 19<sup>th</sup> century, some to the 20<sup>th</sup> century. Corley Moor and the surrounding fieldscape complex have been truncated somewhat by the M6.

The commons at Baddesley and Baxterley were at one point joined and were part of a much larger area called Baxterley Heath which took in Baddesley Colliery, and most of the present day extent of Baxterley and Baddesley Ensor and most of Grendon settlements.

Settlement appears to have started to encroach onto this large area of Common/Heath at Baxterley and Baddesley. This is most obviously seen in their historic cores and some isolated houses at Baxterley Common woods (which itself is woodland that has developed on common). Industry also encroached onto the common, in the late 19<sup>th</sup> century, in the form of Baddesley Colliery as well as opencast mining and spoil heaps from the mining process, all of which are now derelict. Part of the reason why the common and heath developed was due to the paucity of the soil in turn

due to underlying geology, the same geology responsible for rich coal deposits.

Some place names indicate that more common and heath land used to exist in areas where little or none currently remains, such as Ansley Common, Whitacre Heath and Bodymoor Heath.

### Fieldscape

The predominant fieldscape type found in the District is very large post-war fields, forming huge areas up to 540 hectares in size. These are most commonly found in the parts of the District with least settlement and appear mostly in the centre and north rather than the south where irregular fields are more prevalent.

Patches of piecemeal and re-organised piecemeal enclosure of medieval open fields are found around Shustoke, to the east of Coleshill and around Baxterley and Birchley Heath. Small patches of piecemeal enclosure are scattered throughout the rest of the District.

There is a substantial number of irregular fields in the District, mostly found on the outskirts of villages and settlement with many more irregular fields in the southern part.

The only squatter and encroachment enclosure is in the very south around Corley Moor and the eastern edge of Packington Park. This reflects the edge of a wide band of common/heathland that stretched from the northern part of Stratford-on-Avon District through Solihull Metropolitan Borough to North Warwickshire District. This common/heathland appears to have been enclosed from the late medieval period onwards.

There is relatively little planned enclosure or rectilinear fields in this area when compared to the other field types. A small concentration is found in the Newton Regis, Austrey area with other patches around Caldecote, Astley, Coleshill, Maxstoke, Whitacre Heath and Middleton.

Some of these can form fairly large contiguous areas up to 213 hectares in size.

Paddocks and closes as in other parts of the county tend to be on the edge of settlements including the edge of farmsteads.

Floodplain is found along the main rivers of the Anker, Tame, Cole and Blythe.

There are some areas of woodland clearance and assarts around Heah Wood which could be older medieval assarts and Dale's Wood which is 20<sup>th</sup> century woodland clearance. Other patches are found around Bentley Park/Monks Park Wood and elsewhere throughout the District.

## Woodland

North Warwickshire has slightly more woodland than the average for Warwickshire but this is still quite sparse when compared to the rest of its landscape. Most of it is found as small patches of woodland while there are some large areas of ancient woodland such as Kingsbury Wood, Bentley Park/Monks Park Wood, Hartshill Hays, Hoar Park, Heah Wood, and New Park that form an uneven band in the centre of the District between the main river valleys (Anker and Blyth/Tame). Woodland was probably once much more extensive in this central area but is now largely fragmentary.

Small patches of later woodland plantations (19/20<sup>th</sup> century) are found scattered throughout the area, but are rarely very large.

There is some evidence of an area of previous common grazed woodland or wood pasture at the present Outwoods Golf Course just southwest of Atherstone. Bentley Park/Monks Park Wood may also have been common grazed woodland from the medieval period through to the 19<sup>th</sup> century.

There are a number of distinct areas where woodland once existed. The first is around Middleton Hall which was probably

much more extensively wooded. A second area between Maxstoke and Fillongley now consists of fragmented woodland but it is likely that this was once a more cohesive woodland unit. Others include the areas around Bentley Park Wood, between Polesworth and Baddesley Ensor and on the border with Solihull at Birchley Hays Wood, Close Wood and near Packington Park.

## Water

The two main river systems in the District, the Anker and the Tame, both run in a north/north westerly direction. The Anker runs from Nuneaton through Atherstone and Polesworth and joins the River Tame at Tamworth. Alvecote pools are a major water feature on the Anker just North of Polesworth.

The Tame runs from Water Orton through Kingsbury and on to Tamworth. It is joined by the Cole running from the Birmingham area through Coleshill and the Blythe running from just the other side of Packington Park.

Where these meet, near Hams Hall, the floodplain opens out. The large number of pools here are mostly the result of extensive sand and gravel quarrying. Some make up Kingsbury Water Park; others form Middleton Lakes RSPB Nature Reserve.

Reservoirs are found throughout the District, most are small but some, such as Shustoke, are much larger, being up to 50 hectares in extent.

Other artificial water features consist of fishing lakes and small ponds associated with country houses and farmsteads. Some of these smaller ponds could date back to the medieval period.

## Industrial

North Warwickshire has around a third more, in terms of area, of industrial sites than the average for Warwickshire. This is clearly seen in some of the largest

distribution parks in the area and region such as Hams Hall (over 200 ha) and Birch Coppice (approx 75ha). Both have rail terminals with direct links to the Channel Tunnel and both have interesting histories.

The Hams Hall site was once a series of large power stations, at one time the largest in Europe. Previously it formed Hams Hall country house with a designed park attached.

Birch Coppice was until 1987 a coal mine with origins in the 19<sup>th</sup> century. Before that it was agricultural land with large irregular fields recorded on 19<sup>th</sup> century maps.

Other large industrial estates generally tend to be associated with the larger settlements in North Warwickshire such as Coleshill Industrial Estate and Carlyon Road and Holly Lane industrial estates at Atherstone.

Other smaller areas of industrial activity are scattered throughout the District. Utilities, particularly sewage works, are generally small and found all over the District however a large sewage works, presumably serving the urban area of the Metropolitan Borough of Solihull, is found next to Hams Hall on the River Tame.

One industrial site of note is Kingsbury Oil Depot which is the largest inland oil depot in the country. It is also apparently the only oil depot within a few hundred metres of a live firing range!

The older industrial areas in the District (ignoring any extraction) can be found at one particular site at Atherstone next to the canal. They are now mainly used for light industry.

## Extractive

North Warwickshire has twice the number of extractive sites than the county average and this is clearly visible across the landscape. The extractive industry has declined in the last century, especially coal mining. However Daw Mill Colliery is still active as the largest coal mine in the

country, producing a British record of 3.2 million tonnes of coal in 2008 (UK Coal, 2009) and with 680 miners working at the mine it is an important employer for the area.

Other coal mines have closed, some in the last 20 years such as Baddesley Colliery which remains a derelict site.

North Warwickshire District like Nuneaton and Bedworth Borough has a long history of coal extraction with some open cast mines marked on Beighton's map of 1725. In the late 19<sup>th</sup> century and early 20<sup>th</sup> century coal mines stretched from Hartshill towards Baddesley Ensor, north of Kingsbury and around Dordon with further coal fields north of Polesworth.

Change in historic landscape character from coal mining to other types has been quite varied over the last few centuries. For example old coal workings now form areas of woodland, arable fields, water features, industrial distribution parks, wildlife reserves (such as Alvecote Pools which were formed from collapsed mine workings) and Pooley Country Park which has the Pooley Fields Heritage Centre relating to Warwickshire's coal mining past.

Other active extractive sites include Purley, Mancetter and Hartshill quarries which all extract hard rock. Parts of these areas are now disused and some have been left as huge open pits with pools of water.

The only clay extraction site in the county exists in North Warwickshire on the border of Staffordshire just south of Tamworth.

The other main form of extraction in North Warwickshire is sand and gravel. There are two main areas: around Middleton Hall and just north east of Coleshill by the River Tame. In fact most of the river terraces and floodplain area of the River Tame have been exploited for sand and gravel deposits since the 19<sup>th</sup> century. Most of these areas now have water features, some forming parks such as Kingsbury Water Park and the new Middleton Lakes RSPB reserve (due to open in 2010).

Inevitably some waste tips and derelict industrial land is found near to coal mines and other extraction sites. The largest is a 123 hectare site at Packington.

## Military

The only military site in the District is Kingsbury Firing Range a relatively small site not far from Kingsbury Oil Depot. Previous military sites are made up of temporary Second World War camps at Merevale and Packington Parks.

## Designed Landscapes

Almost 7% of North Warwickshire is designed landscape, which is 50% more than the average in Warwickshire. This is mainly made up of just a few very large areas of designed landscape including:

- Merevale Park with the Outwoods Golf Course adjoining
- Purley Chase Golf Course
- Kingsbury Water Park
- The Belfry Golf Course
- Middleton Park
- Packington Park including the Golf Course and Country Club and Stonebridge Golf Course which adjoins it to the south
- Pooley Country Park
- Maxstoke Park Golf Course

What is immediately obvious from this list is the large number of golf courses and modern country parks such as Kingsbury and Pooley.

Modern sports fields and public open spaces are found in and around the main urban areas of Atherstone, Hartshill, Coleshill and Polesworth

Some large older designed parks and gardens dating back to the 18<sup>th</sup>/19<sup>th</sup>

century exist in the District such as Merevale, Middleton, Arbury and Packington Parks. Smaller ones such as Blythe Park, Fillongley Park, Caldecote Park and Shustoke House Grounds are associated with smaller country houses.

From the medieval and post-medieval periods there is evidence of deer parks at Packington Park, Middleton Park, Maxstoke Park, Hams Hall Park, Coleshill Deer Park and Bentley Park.

## Settlement

North Warwickshire is one of the most sparsely settled districts in the county second only to Stratford-on-Avon District. The urban centres are Atherstone, Polesworth, Coleshill, Kingsbury, Water Orton, Mancetter, Grendon/Baddesley Ensor, Fillongley and Hartshill (although Hartshill has become more of an extension to Nuneaton and Bedworth than a separate urban area in North Warwickshire).

Atherstone started as a linear settlement along the Roman road (Watling Street) and has expanded with industrial developments to become the main town for the District.

Coleshill is another linear settlement created along a main road and Fillongley is similar although on a much smaller scale.

Baddesley Ensor and Grendon are common edge settlements that have built up next to common land.

Kingsbury has developed sandwiched between the river Tame and the railways.

Polesworth started on the banks of the River Anker and has gradually spread outwards, particularly southwards, in the 20<sup>th</sup> century.

Other small nucleated villages can be found in the north of the District such as Newton Regis, Austrey, Seckington, Warton and Shuttington. Elsewhere settlement is sparsely scattered. Farmsteads follow this pattern being more often part of nucleated

villages in the north and more scattered isolated farmsteads, but of greater density, towards the south.

There are a number of country houses in the District with most found in the south with a distinct cluster around Fillongley.

## Transport

Two canals pass through North Warwickshire. The Coventry Canal (opened in 1771) from Nuneaton leads through Atherstone and Polesworth before heading towards Tamworth. A small part of the Birmingham and Fazeley Canal (opened in 1789) leads from Minworth towards Fazeley in Staffordshire.

Railways have also had an impact in the District with main lines running from Nuneaton towards Tamworth (passing through Atherstone and Polesworth) and a series of lines running from Tamworth and Nuneaton towards Birmingham. Some of the railways lines that still exist led directly to coal mines. Some have been dismantled. Others became disused but have since come back into use, such as at Birch Coppice where the old railway line leading to the old colliery was reinstated to be used for the distribution park.

Other dismantled lines include the Stonebridge Railway running from the

main railway line near Shustoke towards Hampton in Arden.

More recently a number of motorways have been built across the District with the M6 dominating in the southern part while the M42 and the relatively new M6 toll cross the western part.

## Civic and Commercial

In general most of the civic and commercial areas are schools located in the main settlements in the District with some municipal areas at Atherstone and Coleshill.

Other commercial sites include some camping and caravan sites and hotels such as The Belfry, Lea Marston and Moxhull Hall which have been formed mostly from old country houses.

## Horticulture

North Warwickshire has about half the county average of horticultural sites. Most of these are small allotments within or close to main settlements. Some small orchards are recorded but these are few and far between. Some modern nurseries are also found in the District.

## Rugby Borough

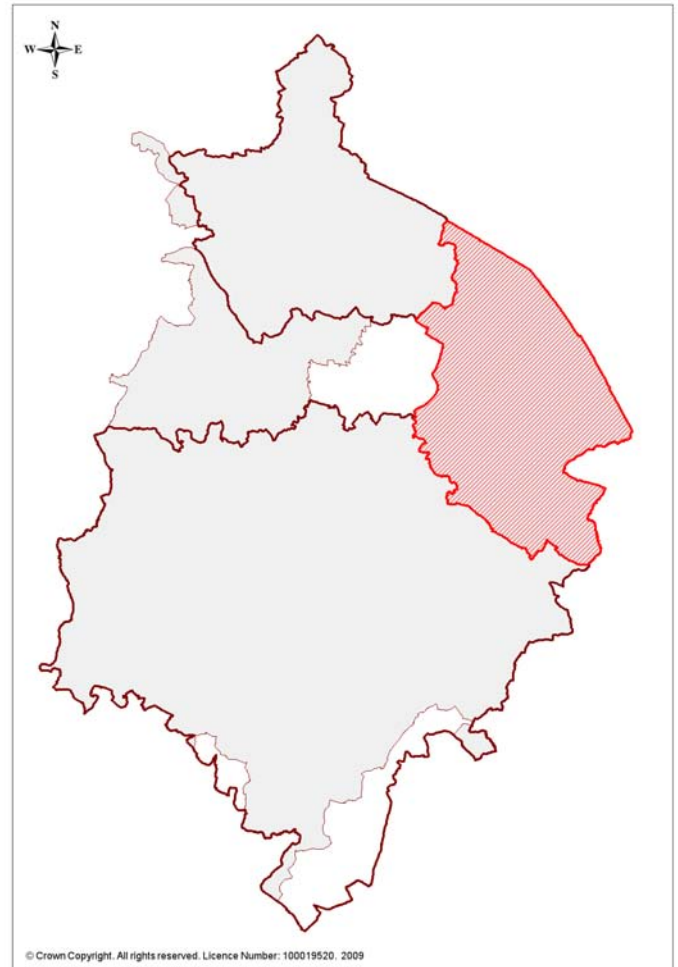
### Introduction

The present borough was created on 1 April 1974 by merging the previous municipal borough of Rugby (which covered the town of Rugby) and the Rugby Rural District.

The Borough is 35,558 hectares in size with a population of 91,000 people giving a density of 256 people per square kilometre. Over 60,000 people live within Rugby itself making it the second largest town in the county after Nuneaton.

The Borough is predominantly rural although the town dominates and provides the main focus for the Borough where the council has its headquarters. The town has been shaped by the arrival of the railways in the 19<sup>th</sup> century and is well known for Rugby School (the birthplace of the game of rugby), the invention of the jet engine by Frank Whittle and the Rugby Cement Works which dominate the town and skyline for miles around.

The Borough borders Nuneaton and Bedworth Borough to the northwest, Coventry to the west, Warwick District to the south west, Stratford-on-Avon District to the south and the counties of Leicestershire and Northamptonshire to the east.



## Summary of Historic Landscape Character

Despite being a largely rural District with almost 80% of the landscape being fields, the dominating landscape feature of Rugby Borough is the town of Rugby itself. Over 65% of the population of the Borough live within the town and its development has shaped the settlement pattern of the Borough. It is the only major urban area and the rest of the Borough contains villages and farmsteads. Consequently, most of the civic and commercial centres including larger schools are found either within or next to Rugby.

The town expanded rapidly in the late 19<sup>th</sup> and early 20<sup>th</sup> century due to its position on a canal and the crossroads of a number of main railways. Industrial sites sprang up close to the town centre, the canal and the railways. Later the industrial areas developed as large industrial estates north along the Swift valley and even further north closer to the more modern transport corridor of the M6 motorway.

Some industrial areas are changing and developing such as the Ryton Motor Works which has closed recently and the huge area of the Rugby Radio Mast site which was recently decommissioned and largely dismantled.

The other dominating industrial site at Rugby is the cement works. In production since 1860, it is visible from miles around and has had a large impact on the town.

Other extraction works include the large sand and gravel works at Ling Hall on Dunsmore Heath and smaller scale works elsewhere in the Borough.

Despite this urban and industrial impact, fields make up most of the Borough. There is little coherent pattern in the mix of planned and irregular fields interspersed with very large post-war fields. The Borough contains some areas of unusual field patterns not found elsewhere in the county. These include the co-axial piecemeal strip fields at Harborough Magna, the later planned enclosure radiating out of Flecknoe and the fields

radiating out from the centre of Dunsmore Heath.

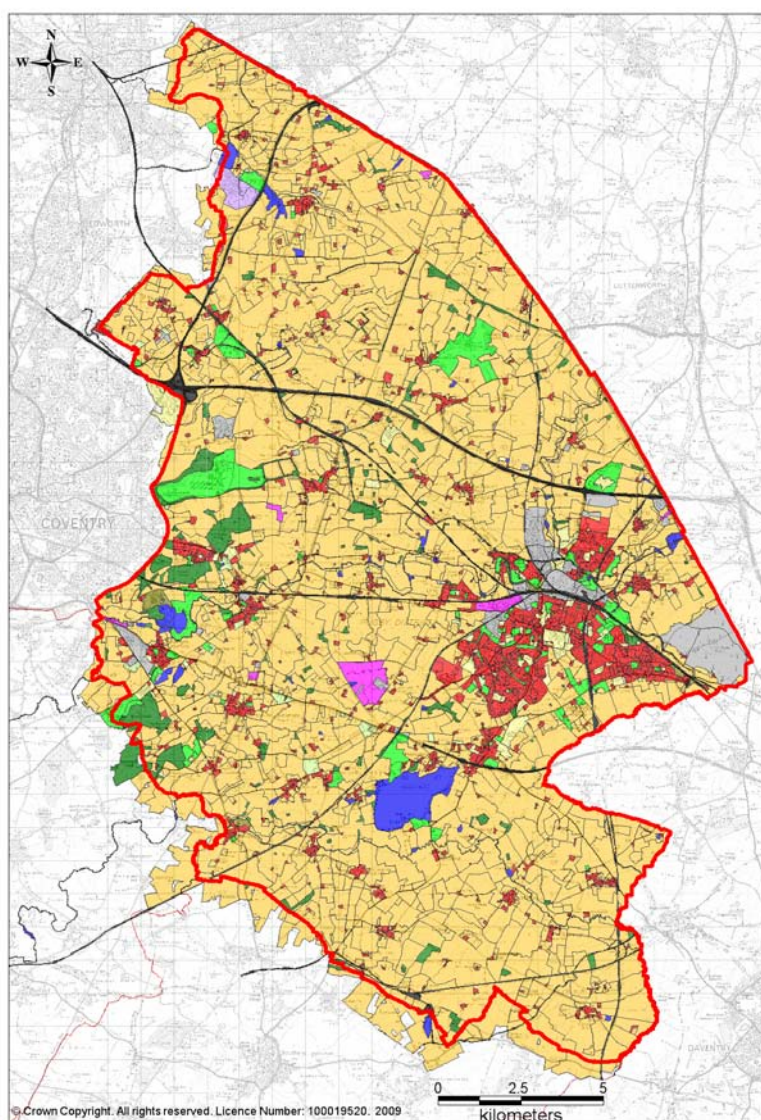
Another characteristic of the Borough is that it has little unimproved land. Most is scrub formed on disused 20<sup>th</sup> century extractive works. However in the medieval/post-medieval period there were some very large areas of common/heathland with Wolvey Heath in the north and Dunsmore Heath in the south, the later possibly forming an area over 3,700 hectares in extent and probably much larger.

There is also much less woodland than the county average. Most is found in the west of the Borough in a loose disjointed band from Birchley Wood through to Princethorpe Wood. Some of the woodland in the Borough is unusual, such as the long linear formations of Withybrook Spinney and Long Spinney following parish boundaries and historic route ways such as the Fosse Way.

Rugby borough also has the largest artificial water feature in the county in the form of Draycote Water, and the largest area of marshland, albeit artificially created (from sand and gravel extraction) and artificially managed as part of a nature reserve at Brandon Marsh. Other water features tend to be natural, such as the Rivers Avon and Leam.

Other distinctive features of the Borough include the military barracks of Gamecock at Bramcote on the site of the former RAF airfield.

## Map of Rugby HLC Broad Types

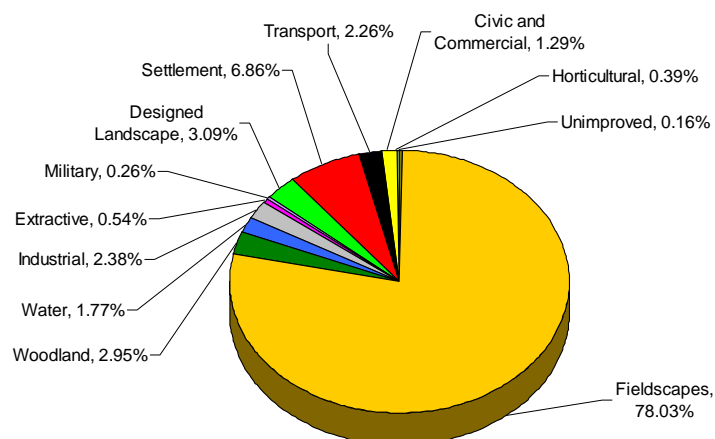


### HLC Broad Types

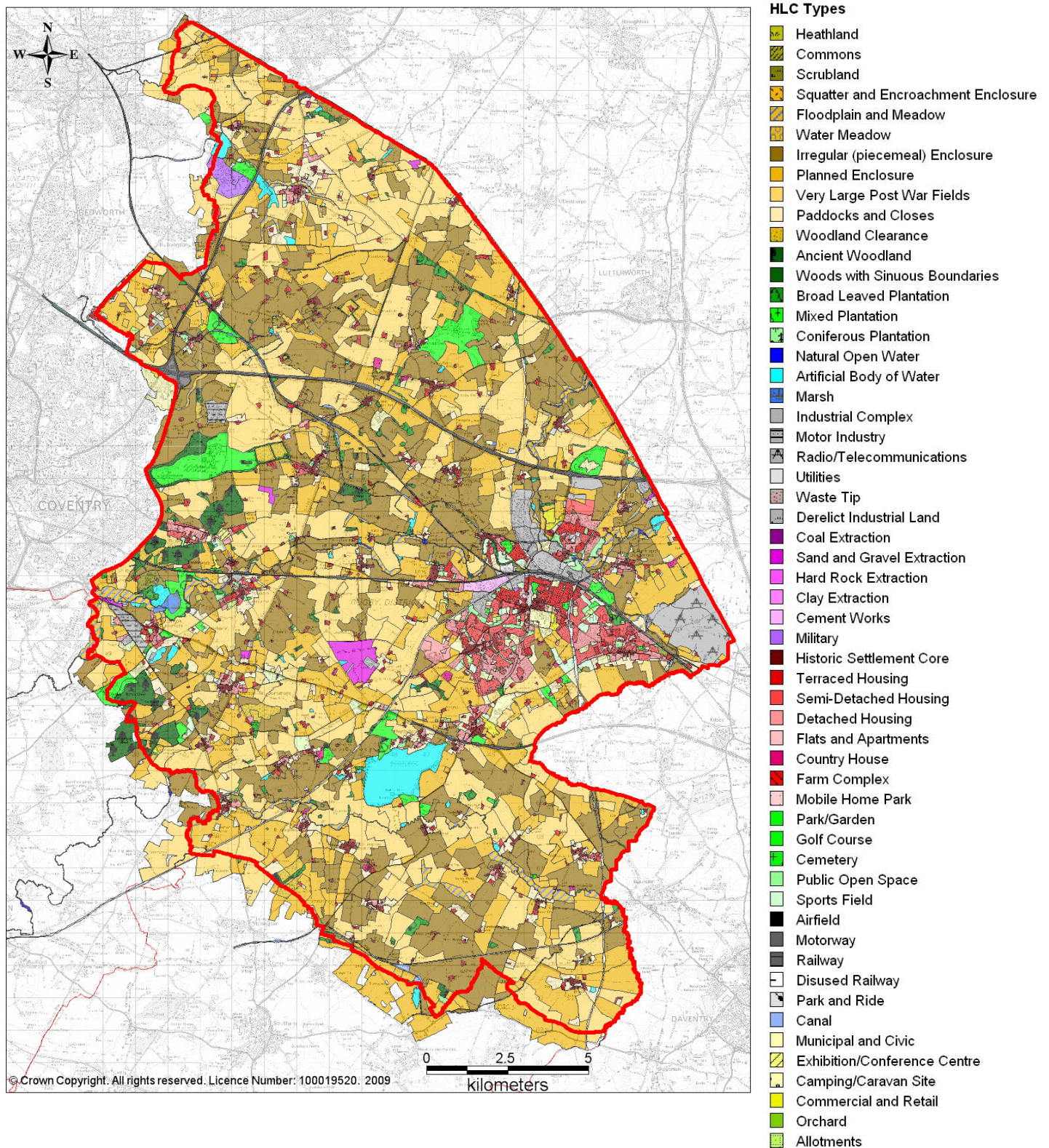
- Civic and Commercial
- Extractive
- Fieldscape
- Industrial
- Military
- Horticulture
- Designed Landscapes
- Settlement
- Transport
- Unimproved
- Water
- Woodland

## Rugby HLC Broad Type Statistics

HLC Broad Type	Total Area (ha)	Percentage of District
Unimproved	60.73	0.16%
Fieldsapes	29384	78.03%
Woodland	1112	2.95%
Water	665.93	1.77%
Industrial	896.61	2.38%
Extraction	204.95	0.54%
Military	99.15	0.26%
Designed Landscapes	1163.17	3.09%
Settlement	2583	6.86%
Transport	852.65	2.26%
Civic and Commercial	487.61	1.29%
Horticultural	145.6	0.39%



## Map of Rugby HLC Types



## Historic Landscape Character Analysis

### Unimproved

There is very little unimproved land in Rugby Borough. Most of it is scrubland associated with 20<sup>th</sup> century aggregates extraction.

However, there once were extensive areas of heath and common in the Borough, in the later medieval/post-medieval period. A small area at Wolvey Heath was probably common/heathland and a large area at Dunsmore Heath once stretched from the western edge of Rugby to Wolston and Ryton on Dunsmore to the west. It probably stretched from the floodplain terrace area of the Avon in the North until Princethorpe, Frankton, Thurlaston and Dunchurch to the south. The area may have once taken in land all the way to Clifton upon Dunsmore but it is more difficult to be certain of this.

### Fieldscape

Rugby is one of the most rural local authority areas in Warwickshire with fields covering 78% of the Borough.

The overall field pattern is a mixed one with a number of areas with a planned appearance and others with more irregular field patterns. Interspersed between these are very large post-war fields, some forming huge areas and in total making up around a third of the total fieldscape in the Borough.

However, despite this mixed appearance there are some distinct patterns of fields across the Borough.

There is a concentration of piecemeal enclosure in the south from Dunchurch southwards, especially around Willoughby, Grandborough and Kites Hardwick. Other large patches of piecemeal enclosure exist just north and west of Rugby around Harborough Magna and Newton.

Further north and west of Rugby the pattern tends to be of re-organised

piecemeal enclosure with small patches of surviving piecemeal enclosure.

The other striking feature in the Borough is the large amount of irregular enclosure which covers most of the area between north and west of Rugby and south of Wolvey. One particular concentration is just north of Churchover.

There are a number of concentrations of planned and more rectilinear fields: a band between Hawkesbury and Willey; around Flecknoe; to the south west of Leamington Hastings and Birdingbury; and, quite fragmented, around Stretton-on-Dunsmore.

The Fosse Way Roman road is quite clearly visible through the changes of fieldscape type on either side of it; these often reflect changes in parish and ownership.

Some unusual field patterns exist in the Borough. Just east of Clifton on Dunsmore there are very large rectilinear divisions of fields running southeast – northwest, giving the appearance of planned enclosure. However, within these fields are a series of large slightly irregular fields with straight and curvilinear boundaries breaking them down. These look like ladder type enclosures but remain a unique field pattern in the county and their development is not fully understood.

Just south of Harborough Magna a fine example of piecemeal enclosure exists with a series of small irregular fields, many forming strips with reverse 'S' boundaries related to the landscape's previous use as open fields with ridge and furrow ploughing.

At Flecknoe the planned field pattern creates a unique pattern radiating out from the village.

At Dunsmore the field pattern radiates outwards from the centre of the old Dunsmore heath area. This pattern relates to the medieval parish boundaries and division of the heath land to supply each

parish with a proportion of meadows, agricultural land, heath/common and possibly woodland (Warwickshire County Council, 1993a).

Field patterns also meet up at Cloudesley Bush which seems to be a focal point on the Fosse Way. This is also one of the highest points in the area and a major watershed division.

Small paddocks are found in the Borough predominantly next to farmsteads and on the edge of small settlements. Others are found around the nucleated villages which are more prevalent and less developed in the south of the borough.

One larger area of paddocks and closes is found at Wolvey Heath. However, this area may actually represent rectilinear squatter enclosure of the heath.

Floodplain and meadow is found mainly along the Rivers Avon, Leam, Swift and Anker.

In terms of woodland clearance older assarting, possibly dating back to the medieval period, appears to have taken place near some of the ancient woodland in the Borough, such as between Piles Coppice and Brandon Wood, around Princethorpe Wood and Debdales Wood.

More modern 20<sup>th</sup> century woodland clearance has taken place just east of Coombe Abbey and south east of Stretton on Dunsmore where Frankton Wood once existed.

## Woodland

Rugby has around 25% less woodland than the county average and there are few large areas of woodland. Most is found in the western part of the Borough with ancient woodland at Brandon Wood, Piles Coppice and Birchley Woods. There is also substantial woodland at Coombe Abbey. The other large area of woodland is at Ryton Wood with Princethorpe Wood nearby where much of this area was probably once all wooded.

Other wooded areas in the Borough tend to be small pockets scattered throughout the rural areas.

Some woodland formations in the Borough are not found elsewhere in the county. Two rectangular strips of woodland form two boxes just east of Coombe Abbey; these were created by assarting.

Two very long and thin sinuous strips of woodland partly follow parish boundaries: Withybrook Spinney and Long Spinney.

Around half the length of Withybrook Spinney runs along Withybrook parish boundary. It runs up along the Fosse Way and heads west at Cloudesley Bush. The woodland is marked on Greenwood's map of 1822 and is probably much older.

Long Spinney follows Monks Kirby parish boundary and heads towards the Fosse at Cloudesley Bush. However, it covers much less of the parish boundary than Withybrook Spinney.

## Water

The main river systems in the Borough are the Avon and the Leam with the Swift and other smaller brooks feeding into these. The source of the Anker is found in the north western part of the Borough. Cloudesley Bush is one of the highest points in the area and a major watershed division with the landscape feeding into the Anker to the west, into the Soar to the north and east into Leicestershire and into the Smite and eventually the Avon to the south.

The Borough also has the largest artificial water feature in the county in the form of Draycote Water, a reservoir created in 1960s for the principal purpose of supplying water for the surrounding populations. However, it is also used for water sports and provides an important habitat for a variety of wildlife.

The Borough also has some of the largest areas of marshland in the county at Brandon Marsh Wildlife Reserve. These artificial marshes, formed from sand and

gravel extraction, are actively managed to maintain them as marshland habitats.

Small ponds and water features are found throughout the Borough.

## Industrial

The industrial areas in the Borough generally relate to the development of the railways at Rugby. The profound impact of being on the crossroads of major railway routes led to the expansive development of the town and the development of industry.

The main industrial areas in the Borough are the Radio Mast Site just east of Rugby, the large area of industrial buildings and industrial estates leading from the north of the town up the Swift valley and the motor works at Ryton and at Ansty Airfield.

The Rugby Radio Mast site has recently been decommissioned with the remaining large radio masts being dismantled (blown up!) in 2007.

The motor works are located close to Coventry, the historical centre of the motor industry. The Rolls Royce factory is on the site of the World War Two Ansty Airfield. The Peugeot factory at Ryton has closed since the Warwickshire HLC was started in 2006 and the site has been cleared of its buildings.

There are a number of small industrial areas scattered throughout the Borough; these tend to be light industrial sites, small trading estates and utility works.

The majority of the industrial sites are either within or adjacent to Rugby town. Some areas close to the town and next to the railway at Rugby have had industrial use since the first half of the 20<sup>th</sup> century. These industrial areas expanded first along the line of the railways and more recently northwards up the Swift Valley and also between the Brownsover suburb and the M6.

## Extractive

Rugby Borough has an average amount of extractive areas for the county.

The dominant site is the sand and gravel quarry at Ling Hall, 125 hectares in current extent and growing.

There are other sand and gravel extraction sites at a smaller scale at High Cross, just east of Newton, on the Avon floodplain next to Ryton on Dunsmore and at other locations around the Borough.

There has been a long history of lime works and cement processing in the area and the Rugby works remains one of the biggest cement works in Europe. The extractive works and processing at Rugby have been in production since the 1860s and the present building dominates the skyline for miles around, not always to the liking of people. (The building came fifth in a Channel 4 poll for the programme Demolition, to find which building in the country the public most wanted to see reduced to rubble).

## Military

Apart from a small Territorial Army Office in Rugby town the only military site in the Borough is Gamecock Barracks. The barracks is one of the few active barracks in the country to have housed all three military services. It started as RAF Bramcote, a training airfield during the Second World War. After the war in 1946 the Royal Navy took over when it became known as Royal Navy Air Station, Bramcote 'HMS Gamecock'. Ironically this was the most inland station the Navy was ever based at. Finally in 1959 it was taken over by the Army and is presently home to the 30<sup>th</sup> Signal Regiment. (British Army, 2009)

Previous military sites in the Borough consist of three World War Two airfields, the one at Bramcote, a smaller one at Ansty and RAF Lawford at Dunsmore.

## Designed Landscapes

Rugby has around 25% less designed landscape area than the rest of the county.

There are only two large historic parks in the Borough at Coombe Abbey and Newnham Paddox. There are a number of smaller designed parks associated with small country houses such as Coton House, Ashlawn House and Dunchurch Hall.

There are also a number of golf courses such as Bramcote, Ansty, Rugby and Brandon. Most of Ryton Pools Country Park is in Rugby borough with part of it in neighbouring Warwick District.

Other small areas of designed landscape are associated with the main urban areas of Rugby town and the larger villages; these include such sites as cemeteries and public open spaces.

## Settlement

The main settlement in Rugby Borough is Rugby itself (including Hillmorton and Bilton). Aside from this there are a number of large villages such as Dunchurch, Wolston, Ryton-on-Dunsmore, Stretton-on-Dunsmore, Wolvey and Clifton-on-Dunsmore. Many of these larger villages have expanded dramatically in the 20<sup>th</sup> century. However, most of the villages in the Borough are small nucleated villages that have had little development in the 20<sup>th</sup> century.

Binley Woods is of note as a modern predominantly post-Second World War housing estate, built isolated from other settlements. It is on the outskirts of Coventry but separated from the city by the A46 dual carriage way. The housing estate was built over the site of woodland; hence the name.

Rugby has a fairly small historic core surviving in the town centre where a large part of this area has been redeveloped with shops and the Borough's administrative buildings. Rugby School forms the other part of the historic core of the town.

The rapid expansion of Rugby in the late 19<sup>th</sup> and early 20<sup>th</sup> centuries appears to have been due to the railway and light industry. Blocks of pre 1880s terraced housing radiate out from the historic core towards the railway and were in-filled with later terraced housing in the early 20<sup>th</sup> century. Small industrial areas lie close to the railway with some of these now derelict.

The cement works has always had an impact on the town but lies on the very edge slightly detached by the now dismantled Rugby to Leamington railway line.

Between 1900 and 1955 a mixture of detached and semi-detached housing expanded Rugby to beyond twice its size and connected it with Bilton to the south-west and across the Great Central Railway to meet with Hillmorton to the east. Later post-war housing – predominantly detached around Bilton and mixed at Hillmorton – filled in many of the gaps between this area and the railways.

To the north large industrial areas filled in the area between the railway and canal and recently have expanded up the Swift valley.

Settlement also pushed north creating the large estates at Brownsover with a mix of post 1955 terraced, semi-detached and detached housing.

More recent post 1990s housing has expanded Rugby to the west at Cawston but still many villages such as Dunchurch, Long Lawford, Newbold on Avon and Clifton upon Dunsmore retain their character as separate distinct villages.

In terms of country houses there are around 25 scattered around the Borough; less densely than many other districts. These range from those with origins as manor houses in the medieval period to later 19<sup>th</sup> and 20<sup>th</sup> century creations. Most are small and without any large associated designed parks and gardens although some may have had them in the past.

A small concentration of country houses exist just south of Rugby, some being built in the 20<sup>th</sup> century.

Other country houses have been converted to other uses such as Coombe Abbey to a hotel and Bilton Grange to a school.

There are a large number of farmsteads (461) also recorded in this predominantly rural borough.

## Transport

The Oxford Canal (opened in 1790) passes through the Borough from the southeast just outside Rugby heading northwest past Rugby towards the Coventry/Nuneaton and Bedworth boundary.

Part of the Grand Union Canal passes through the Borough in the form of part of the Warwick-Napton Canal including some of its marinas.

Railways have had a significant impact in the District. The major junction at Rugby was the main reason the town expanded so rapidly in the late 19<sup>th</sup> and early 20<sup>th</sup> century.

From Rugby railways lead to Coventry, Nuneaton and Bedworth, Milton Keynes and Northampton. These lines continue to other parts of the country such as London, Birmingham and the North.

Railways also once ran directly to Leamington, Peterborough, Leicester and the North (two lines) and Aylesbury and London to the south. These have all now fallen into disuse and have been dismantled.

More recently a number of motorways have crossed the Borough including the M6, M69 and M45.

## Civic and Commercial

The administrative buildings at Rugby dominate the civic areas of the Borough with Rugby school, Bilton Grange School and other schools in Rugby also forming a large part of the total civic and commercial areas.

A number of other training colleges are found in the Borough such as the Newbold Revel College for the HM prison service, Coton House College for the Post Office and Ryton Police Training College which was the first national police training college in the country, established in 1948.

In terms of commercial sites there is a shopping and commercial area in Rugby town centre with other large retail parks on the outskirts of the town.

Other commercial sites include a greyhound racing track next to Binley Woods. A number of hotels are scattered throughout the Borough including Brownsover Hall Hotel, a large hotel formed from the old hall and the grounds of part of the designed landscape.

## Horticulture

There are very few horticultural areas in Rugby borough; most are small allotments found within and adjacent to Rugby town and some of the larger villages while there are also a number of nurseries.

## Warwick District

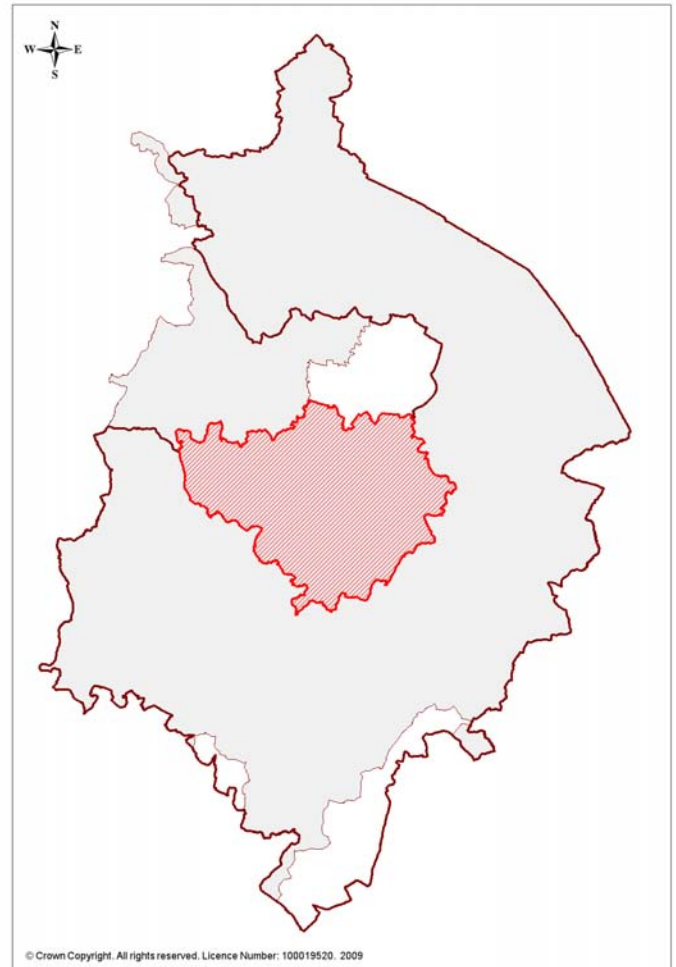
### Introduction

The present district was created in 1974, by a merger of the former Leamington Spa and Warwick municipal boroughs, the Kenilworth urban district and the Warwick Rural District.

The District is 28,226 hectares in size with a population of 134,600 giving a density of 477 per square kilometre. Most of the population live in the main settlements of Leamington Spa, Warwick and Kenilworth.

The District contains the county town of Warwick, famous for its castle, and the home of Warwickshire County Council. However in terms of size it has been outgrown by the adjacent town of Leamington Spa where the District Council has its headquarters.

The District is bordered to the south and west by Stratford-on-Avon District, to the north-west by Solihull Metropolitan Borough, to the north-east by Rugby Borough and to the north by Coventry City.



## Summary of Historic Landscape Character

Although Warwick is a mainly rural district it has less than the average for the county in terms of fieldscapes. However some distinctive patterns of field types can be seen in the District with much more irregular piecemeal enclosure with squatter and encroachment enclosure on old common/heathland out to the west. Some distinctive patches of later planned enclosure lie between here and Warwick/Kenilworth with further patches along the Avon valley. Even later 20<sup>th</sup> century post-war very large fields are found mostly out to the south and east although they are also found throughout most of the District.

The three main towns of Warwick, Leamington and Kenilworth make up most of the settlement element of the District with over 70% of the population of the District residing in these towns. Most civic and commercial sites are also found within these three towns. Other settlement is mainly made up of small villages and farmsteads scattered throughout the District. A number of country houses are found in the area with a particular concentration in the west; not all of these are very old with some being late 20<sup>th</sup> century.

There are a number of concentrations of industrial areas in the District. The first is, as would be expected, around the edges of Warwick and Leamington, mainly in the form of more modern industrial estates, although some older industrial sites exist closer to the town centres near the railway and canal. Other large industrial sites are found next to Coventry airport with a large distribution park, industrial estate and sewage works all lying between the airport and the Avon.

Another distinctive feature of the District is the large number of designed landscapes with a third more on average than the rest of the county. Most of these are in the form of large golf courses or historic parks with a number of large parks and open spaces in the towns of Warwick, Leamington and Kenilworth.

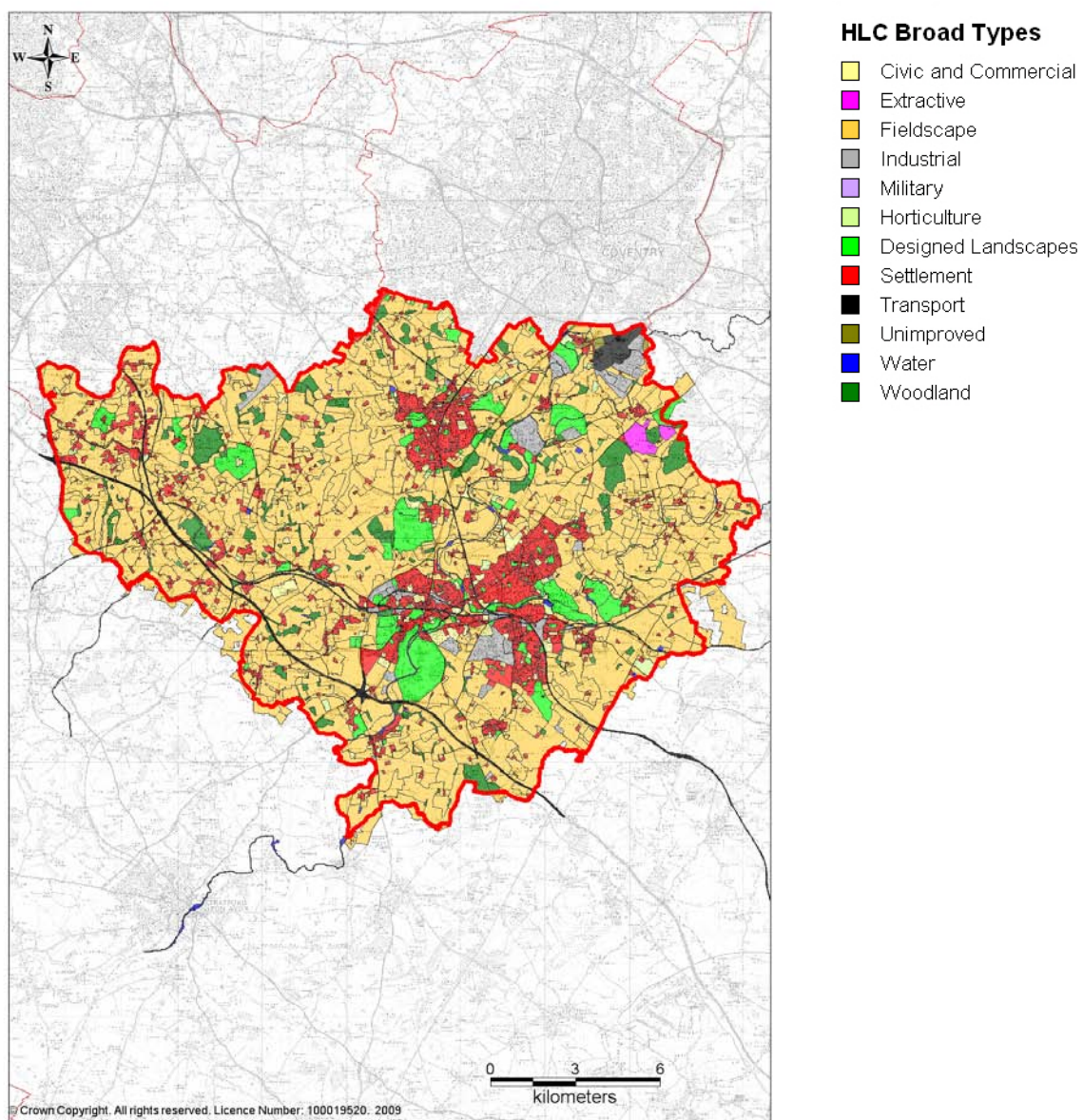
Designed landscapes also played an important part in the earlier history of the District. There were a number of deer parks in the District, covering over 3000 hectares and made up of Wedgnock, Kenilworth Chase and Haseley deer parks.

There is also an above average amount of woodland in the District, the main areas being Hay Wood and in the eastern part of the District around Ryton, Bubbenhall and Wappenbury. Both of these areas were once much bigger and more continuous but have been assarted and partly cleared since the medieval period. Another part of the District that once contained a large amount of woodland is just north and west of Kenilworth.

Conversely there is little unimproved land in the District with only a small amount of common at Kenilworth and some scrub from extraction works in other parts of the District. However in the medieval/post-medieval period there were once much larger areas of common and heath in the western part of the District around Pinley Green, Honiley and Beausale.

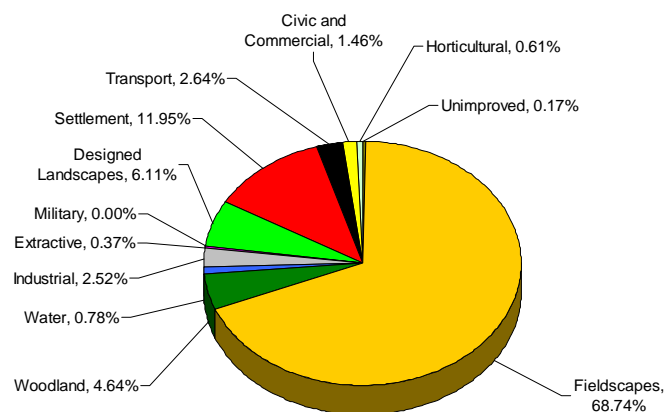
Like other districts there is little horticulture, with some allotments and garden centres found in and around the main settlements in the District.

## Map of Warwick HLC Broad Types

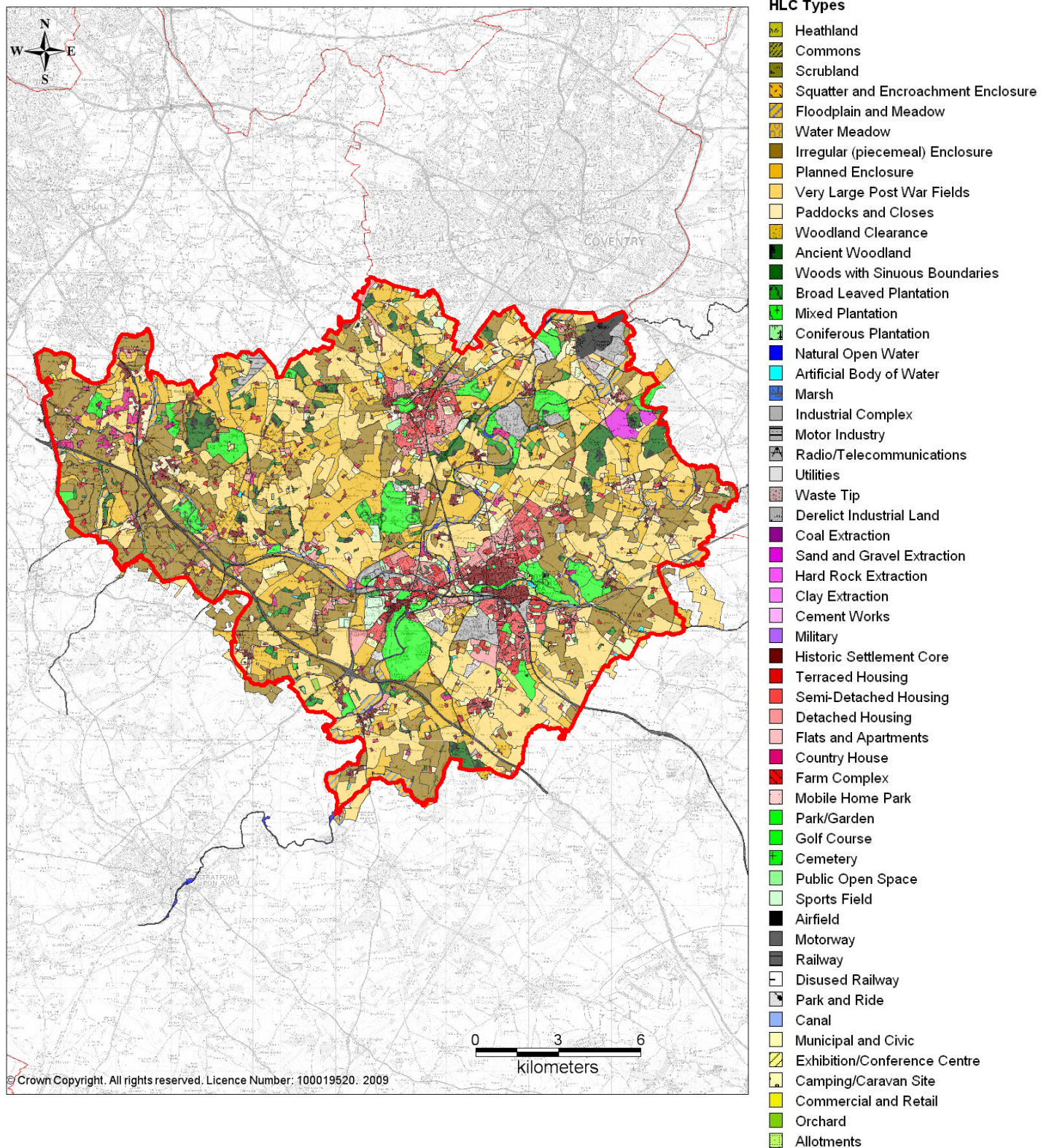


## Warwick HLC Broad Type Statistics

HLC Broad Type	Total Area (ha)	Percentage of District
Unimproved	50.78	0.17%
Fieldscapes	20100	68.74%
Woodland	1358	4.64%
Water	226.7	0.78%
Industrial	738.1	2.52%
Extraction	109.3	0.37%
Military	0	0.00%
Designed Landscapes	1788	6.11%
Settlement	3495	11.95%
Transport	771.1	2.64%
Civic and Commercial	425.8	1.46%
Horticultural	178.7	0.61%



## Map of Warwick HLC Types



## Historic Landscape Character Analysis

### Unimproved

There is very little unimproved land in the District: small areas of common just to the north of Kenilworth and some small areas of scrub on old extraction sites around Baginton and Bubbenhall

However, there were once large areas of common and heathland almost exclusively out to the west, stretching from Yarningale Common, just over the border in Stratford-on-Avon District, north-eastwards through Pinley Green, Shrewley, Beausale and Honiley into the Solihull Metropolitan Borough area and beyond.

### Fieldscape

Warwick District has around 6% less than the average amount of fieldscape for the county. This shortfall appears to have been mainly taken up by more settlement, designed landscapes, woodland, transport and civic and commercial.

The field pattern in Warwick District is quite mixed but some patterns of groups of field types can be observed. For example, on the western edge of the District there is a concentration of piecemeal and re-organised enclosure.

There is also a large area of squatter and encroachment enclosure forming a strip from Shrewley to Beausale. This area appears to have been enclosed in the 19<sup>th</sup> century and was open common land before this. The place names in this area also suggest that common once existed here; names such as Shrewley Common, Haseley Green, Haseley Knob, Yew Green, Rowington Green, Pinley Green and Copt Green.

The concentration of piecemeal enclosure in the same area may also reflect the fact that the land had not been used extensively for agricultural purposes until later in the medieval period. Although ridge and furrow evidence suggests that open fields existed, the good survival of piecemeal enclosure in this area shows that later planned and parliamentary enclosure did not take place, possibly due

to the lower potential for more efficient agricultural use of the land and fewer benefits from carrying out whole scale planned enclosure.

The large amount of piecemeal enclosure with its irregular fields and curvilinear boundaries is one of the dominating characteristics in the western part of Warwick District. Elsewhere in the District there are only patches of piecemeal and irregular enclosure and other forms of enclosure dominate.

Planned enclosure and rectilinear fields survive well in certain areas in the District, in particular in the area between Baddesley Clinton and Honiley. This was probably later planned enclosure of common.

Another area of planned enclosure is between Hatton and Kenilworth where the medieval and post-medieval deer parks of Wedgnock and Kenilworth Chase once lay.

Other concentrations of planned enclosure can be found along the Avon and Leam valleys.

In terms of 20<sup>th</sup> century enclosure most very large post-war fields appear to be more in the east of the District, mainly to the east and south of Leamington and between Hatton and Burton Green. Paddocks and closes are found close to settlement especially farmsteads.

Assarts and woodland clearance are found generally in one concentrated area to the north and west of Kenilworth around the ancient woodland of Crackley Wood, Broad Well Wood, Longmeadow Wood and Chase Wood

Other areas where woodland appears to have been cleared are around the edge of Hay Wood and also around the edge of Weston Wood, Wappenbury Wood and Bubbenhall Wood.

Floodplain and meadow are found in the main river valleys of Avon, Leam and Sowe.

## Woodland

Warwick District has an above average amount of woodland in the county. There are two main areas of ancient woodland both of which were probably medieval managed woodland; one is around the Waverley Wood, West Wood, Wappenbury Wood, Bubbenhall area and the other is Hay Wood. Both of these were once more extensive. Elsewhere, small patches of ancient woodland are found around Honiley, Stoneleigh and north of Kenilworth. Also of note is Oakley Wood in the south of the District. There are other small patches of woodland spread throughout the District with some larger more recent plantations west of Shrewley Common and west of Leek Wotton Golf Course.

Kings Wood, a medieval managed woodland, existed to the west of Kenilworth, but little now remains.

## Water

The main river system that passes through the District is the River Avon and its tributaries the Leam, Sowe and Finham Brook which flow through and meet in Warwick District. The river system comes from the north and east and flows out south and west, through Leamington and Warwick towards Stratford-upon-Avon.

A few small ponds and reservoirs are the only other water features found in the District.

## Industrial

There are two main concentrations of industrial areas in the District. The first is within the towns of Warwick and Leamington with the relatively recent Heathcote Industrial Estate being the biggest development. Older industrial estates are found closer to the town centres and where the canals and railways pass through the towns, with the bigger more recent post war industrial estates being on the edge of the settlements

towards the west of Warwick and the south of Leamington.

The other main area of industry is just to the south and east of Coventry Airport where a variety of industrial estates, utilities and a vehicle testing ground can be found.

The impact of the car industry is further found in the District by another large proving ground at Honiley.

Other significant areas are the National Agricultural Centre, soon to be rebranded as Stoneleigh Park. Stoneleigh Deer Park, a business park just east of this and to the north of Stoneleigh itself is a large area of sewage works.

Elsewhere throughout the District small areas of industrial activity and utilities can be found.

## Extractive

There are three areas of extraction in Warwick District. One small sand and gravel extraction lies just north of Barford next to woodland. The other two are the large sand and gravel extraction sites at Bubbenhall. Previous extraction sites are found just north and east of this area and around Baginton.

## Military

There are no present day military sites in Warwick District.

There were only a few previous military sites in the form of RAF airfields at Honiley, Warwick, Leamington and Baginton.

Some temporary camps may also have existed at Stoneleigh Deer Park Golf Course, The National Agricultural Centre and Stoneleigh Abbey, whilst at Budbrooke there appears to have been a temporary World War Two camp.

The District has one of the few military sites in the county marked on the OS 1<sup>st</sup>

edition (1880s) with the site of Budbrooke Barracks, now under a 1950's/60s housing estate.

## Designed Landscapes

Warwick District has almost a third more designed landscape area on average compared with the rest of the county. These are mainly made up of a small number of very large areas of golf courses and historic parks and gardens.

There are seven main golf courses in the District, the largest being Leek Wootton followed closely by Stoneleigh Golf Course.

The largest historic park and garden in the District is Warwick Castle Park. Other large parks include Offchurch Bury Park, Wroxhall Abbey Park, Stoneleigh Abbey Park, Baddesley Clinton and Two Bits Park

Other smaller parks are associated with the main towns in the District such as Abbey Park at Kenilworth, Priory Park, St Nicholas Park and the Racecourse at Warwick and Newbold Commyn, Jephson Gardens, Pump Room Gardens and Victoria Park in Leamington.

Part of Ryton Pools Country Park is also included in the area although most of it is across the border in Rugby Borough.

A number of sports fields are found in the District; most are fairly small and lie either within or next to the main settlements. There are some larger ones just to the north of Leamington, a rifle range just north of Warwick and sports fields at Warwick University.

Warwick District once had the largest almost contiguous area of deer parks in the county with the large deer parks of Wedgnock and the Old/Great Park or Chase associated with Kenilworth Castle. These parks were only separated by a road running between the two sets of park pales. It is likely that Haseley Park also abutted Wedgnock Park making a huge area of deer parks almost 3000 hectares in size.

Other medieval deer parks were at Stoneleigh Abbey, Lapworth Park and Grove Park.

## Settlement

The main urban areas are the towns of Leamington Spa (including Whitnash), Kenilworth and the county town of Warwick. A number of small villages are scattered throughout the District along with farmsteads.

Leamington has the largest historic core in the county. Part of this is the "old town" area to the south of the River Leam where the development of Leamington started in the late 18<sup>th</sup> century. The other part of the historic core to the north of the river was developed from the beginning of the 19<sup>th</sup> century and remains a fine example of a Georgian planned town.

Industry has focused towards Leamington Old Town with the canal and railways with terraced housing extending out from these areas.

To the north of Leamington, large detached houses developed in the Victorian period along the main roads along with some areas of terraced housing. Further development between 1900 and 1955 in-filled and spread Leamington further north towards Lillington, Cubbington and Milverton while to the south Leamington spread towards Whitnash.

The latest phase of development, in the late 20<sup>th</sup> century, produced detached houses in north Leamington, semi-detached houses to the north east and modern terraced estates and flats at Lillington, Sydenham and some parts of Whitnash.

Warwick on the other hand has a compact historic core with late 19<sup>th</sup> century terraced housing extending along the main roads such as Emscote, West Street and Saltisford. Later small scale terraced housing and semi-detached infill make up the rest of the modern town with modern housing estates to the north and west.

Kenilworth had a different development from Warwick with two main areas of focus of early development: one around the castle and north of the abbey, the other to the south along the High Street. Late 19<sup>th</sup> century and early 20<sup>th</sup> century development comprises terraced housing infilling between these historic cores and the railway to the east. Small areas of detached housing that sprang up in the early 20<sup>th</sup> century and modern (post-1955) infill, predominantly detached houses, make up the present day Kenilworth.

Some villages in the District have retained their original 19<sup>th</sup> century or earlier historic core and size, such as Hill Wotton, Ashow, Honiley, Turner's Green, Hatton Green, Little Shrewley, Offchurch and Sherbourne. Others have expanded as small commuter villages such as Radford Semele, Bishop's Tachbrook and Barford. One late 20<sup>th</sup> century village can be found in the case of Hatton which replaced the site of a mental hospital.

In terms of farmsteads there is a higher number on the west side of the District when compared to the east

This is also true in terms of country houses where a large concentration is found in an area between Nuthurst, Chesets Wood and Kingswood. Many of these are more modern post 1955 country houses but some are older country houses such as Packwood Hall. A second smaller area of country houses just north of Leamington are mainly of the 19<sup>th</sup> century. Larger country houses with associated parks and gardens are found at Stoneleigh, Offchurch Bury and Wroxall Abbey.

## Transport

The Warwick-Napton Canal and the Warwick-Birmingham Canal is the main canal route passing through the District. This was established around 1800 and now forms part of the Grand Union Canal.

The other canal in the District is the Stratford-upon-Avon Canal which passes so close to the Warwick-Birmingham Canal at Kingswood that they were later

linked with a small joining section and locks.

The railway network in the District has Leamington as the hub with links to London, Birmingham, Coventry and through to Stratford via Warwick. Part of the disused Leamington – Rugby line is in the District. Other dismantled lines are between Kenilworth and Berkswell and also part of the Henley in Arden Branch Railway.

Motorways have had their impact too with the M40 passing through the south and south western part of the District

Coventry airport is also in Warwick District. Until recently it was an international passenger airport, but closed to all but light aircraft and commercial flights in 2008. The future for the airport at the moment is uncertain. Its origins like many airports are from the Second World War.

## Civic and Commercial

Most of the civic and commercial areas in the District are found within the main urban areas of Warwick, Leamington and Kenilworth.

The administrative centre for the county is in Warwick and for the District in Leamington. This and the large population size of the two towns means that most of the civic and commercial areas are also found here. Kenilworth also has a number of schools, a leisure centre and shopping areas, while some larger villages have primary schools.

However, other civic and commercial areas are found in the District including part of Warwick University, country hotels and conference centres.

## Horticulture

Only one area of orchards remains in the District, just outside Sherbourne. Some orchards existed to the south and east of Kenilworth in the late 19<sup>th</sup> century.

The rest of the horticultural element in the District is made up of allotments found around the main settlements of Leamington, Warwick, Kenilworth and some of the larger villages such as Bishop's Tachbrook and Barford.

There are also a fairly large number of garden centres spread around the District, some of them covering quite large areas.

## Stratford-on-Avon District

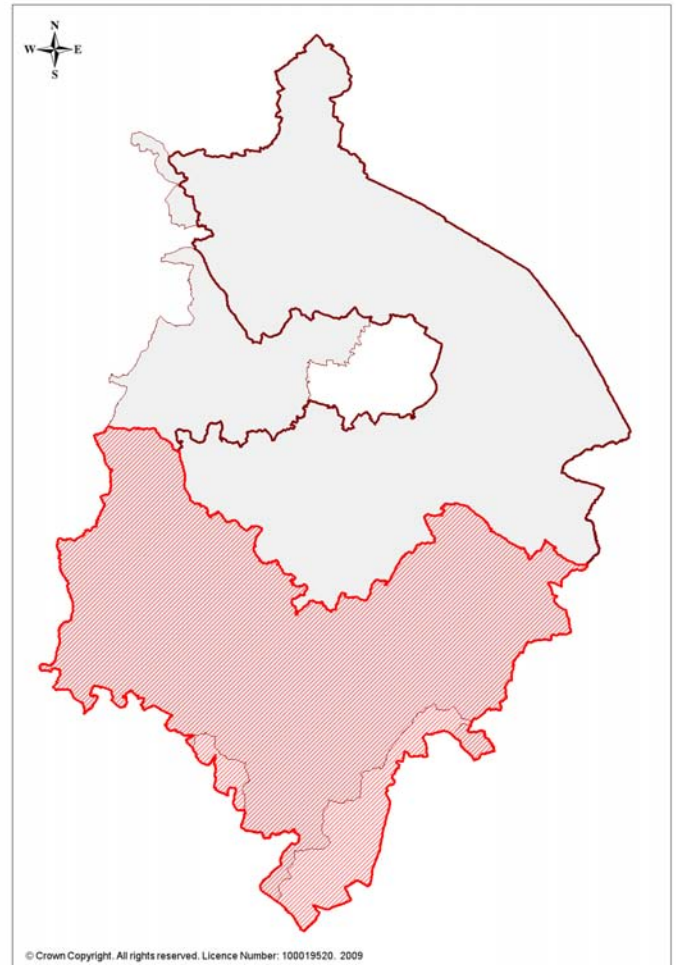
### Introduction

Stratford-on-Avon District was formed in 1974 by the merger of the Borough of Stratford-upon-Avon, Alcester Rural District, Shipston-on-Stour Rural District, Southam Rural District and most of Stratford-upon-Avon Rural District.

The District is the largest in Warwickshire making up half of the county at 97,657 hectares in size. The population is 117,800 giving a density of 121 people per square kilometre making it the least populated District in the county.

The District contains the town of Stratford-upon-Avon famous as the birthplace of Shakespeare. It also contains the county's only AONB with part of the Cotswolds AONB forming the very southern section of the District.

The District is bordered to the north by Warwick District, the north-east by Rugby Borough, the north-west by Solihull Metropolitan Borough, the west by Worcestershire, the east by Northamptonshire and the south by Gloucestershire and Oxfordshire.



## Summary of Historic Landscape Character

Stratford-on-Avon is the most rural District in the county with fields forming around 81% of the landscape. There is a pronounced division between the northwest and southeast of the District. Earlier piecemeal and irregular enclosures are found in large swathes mainly in the northwest forming the most concentrated area of surviving piecemeal enclosure in the county. In the south and southeast, planned enclosure, mostly dating to the 18<sup>th</sup> and 19<sup>th</sup> centuries, dominates. This again forms one of the largest and better preserved areas of later planned enclosure in the county with many parishes almost wholly comprising planned enclosure.

In between these two distinct areas there is a much more mixed pattern with many very large post-war fields being found. Most are in the north of the District and around the Avon valley.

Conversely, in terms of settlement, Stratford is the most sparsely populated district in the county. The main town is Stratford-upon-Avon with a number of smaller towns throughout the District and most of the civic and commercial sites are located in or near these larger urban areas. In the south east smaller more nucleated villages exist while in the north and west the settlement pattern is more dispersed especially in terms of farmsteads.

The town of Stratford-upon-Avon has developed as a hub for transport with the Stratford to Birmingham Canal originating here, linking the Avon to Birmingham. A large number of railways also lead from Stratford to the north, east, south and west to Warwick, Birmingham, Honeybourne, Alcester and beyond.

The District also has less than half the county average area of industrial sites. The largest site is at Gaydon, (motor industry), with other more modern industrial estates found closer to the larger urban areas such as Stratford, Alcester, Wellesbourne and Studley.

Extractive sites in the District are again less than half the county average and are dominated by the cement works at Southam and the sand and gravel quarry at Broom.

There is also very little unimproved land in the District. Most of it is secondary scrub growth following minerals extraction. Some common survives at Yarningale and Forshaw Heath, but, like other areas in the county, there were once large areas of common or heathland. These were mostly in the extreme northwest of the District around Gilbert's Green, Terry's Green and Forshaw Heath with a few other areas in the very south of the District.

The main river system in the District is the Avon with large tributaries such as the Arrow, Alne, Stour and Dene. Other water features include Earlswood Lakes and Napton and Wormleighton reservoirs, all created as canal feeders in the 19<sup>th</sup> century.

There is an average amount of woodland in the District compared with the rest of the county. Most is ancient woodland with a concentration towards the west and north of the District, but very little in the south and east. Previous areas of woodland which have been subsequently assarted or cleared are also found mostly towards the west with a lack of woodland clearance in the south east.

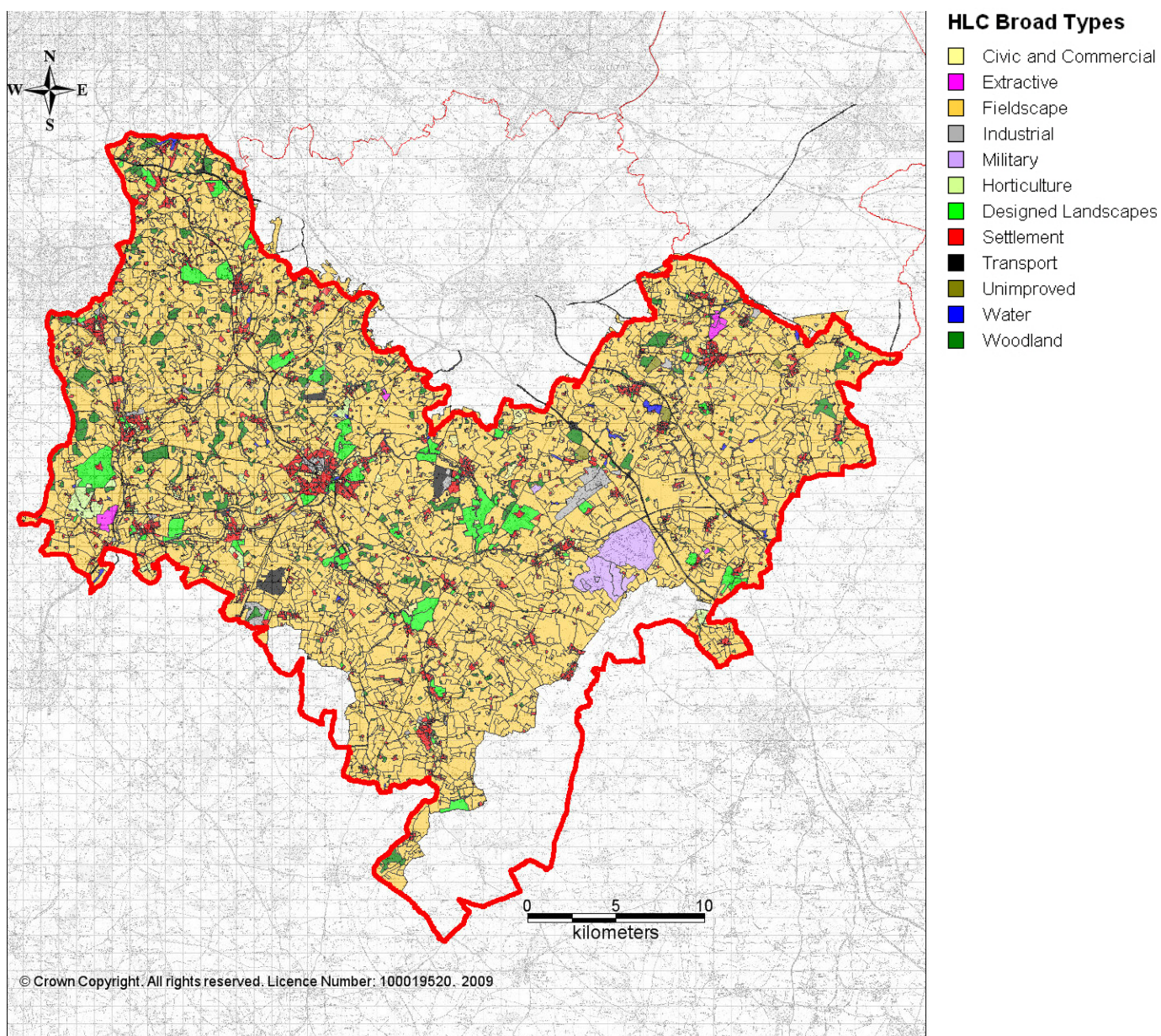
A dominant feature is the military site of DM Kineton in the southeast. At over 1000 hectares in size it is the largest military complex in the county. Part of it covers the site of the civil war battle of Edge Hill. The only other military site is the former nuclear bomb store just west of Gaydon. There were a number of former military installations in the District, such as the Central Engineers Park at Long Marston and a number of RAF airfields, some of which are still in use for light aircraft (Wellesbourne), gliding (Snitterfield) and music festivals (Long Marston).

Another distinct characteristic of the District is the great extent of horticultural land, especially orchards, compared to the

rest of the county. There are still large commercial orchards in the south and west of the District, many in the Avon Valley area.

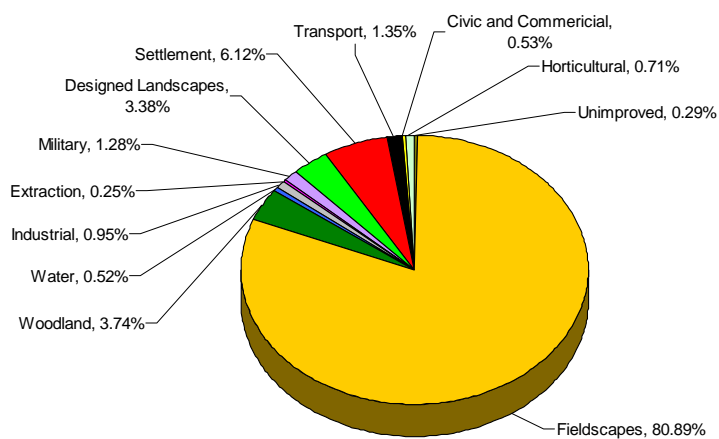
Designed landscapes make up just over 3% of the District and are concentrated in the north and west, with a lack in the south and east. Most are large historic parks with a number of other sites being golf courses. Previously a number of deer parks existed, again mostly in the western part of the District.

## Map of Stratford HLC Broad Types

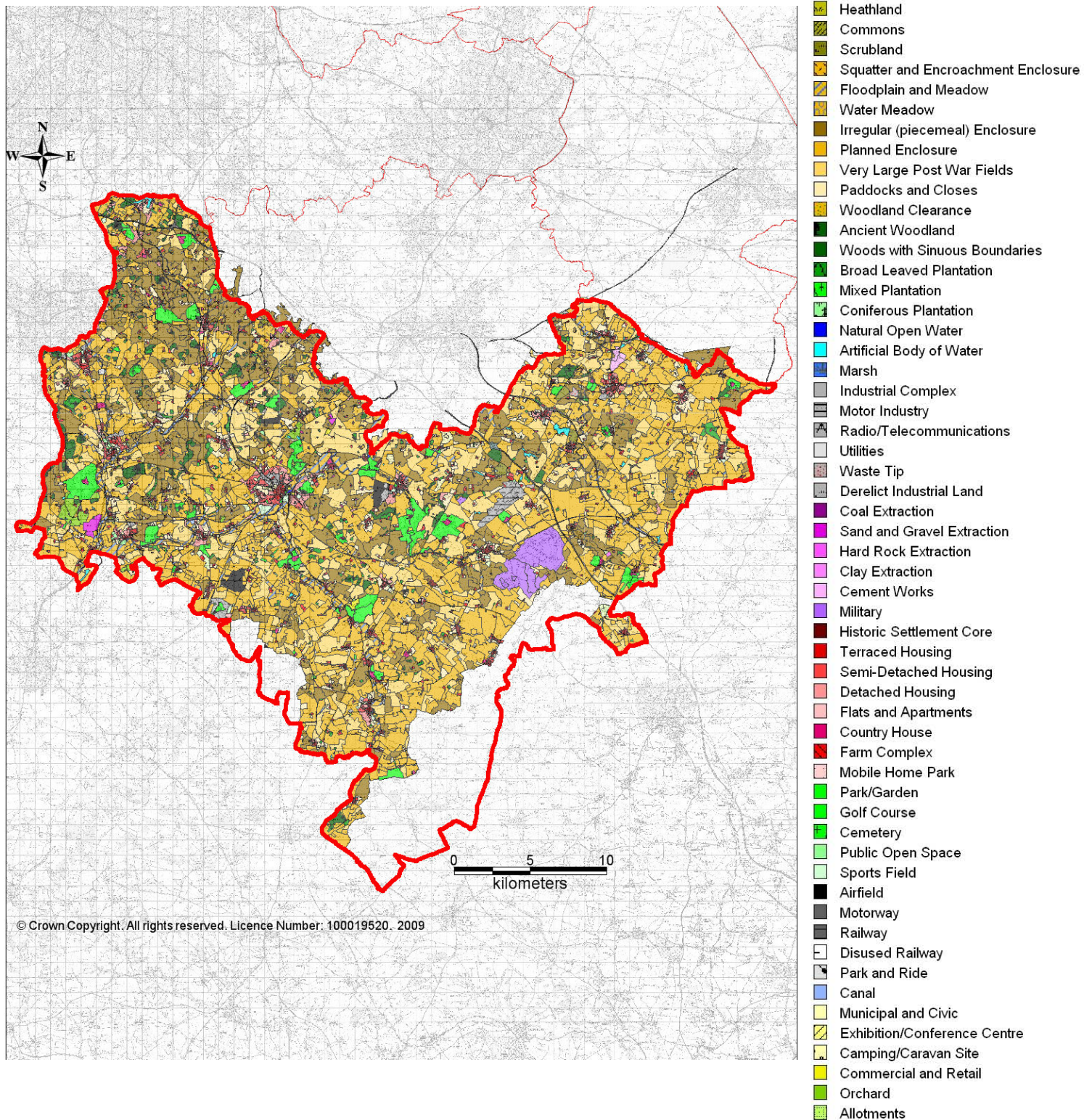


## HLC Broad Type Statistics

HLC Broad Type	Total Area (ha)	Percentage of District
Unimproved	258.3	0.29%
Fieldsapes	71430	80.89%
Woodland	3300	3.74%
Water	461.5	0.52%
Industrial	839	0.95%
Extraction	217.7	0.25%
Military	1128	1.28%
Designed Landscapes	2982	3.38%
Settlement	5405	6.12%
Transport	1194	1.35%
Civic and Commercial	463.6	0.53%
Horticultural	624	0.71%



## Map of Stratford HLC Types



## Historic Landscape Character Analysis

### Unimproved

Most of the unimproved land in the District is scrubland, mostly secondary growth on abandoned quarries and industrial sites. There is a distinct concentration around Bishops' Itchington, Harbury and Lighthorne with another large area at the old Napton Brickworks Site. There is also a scattering of smaller areas of scrub throughout the District.

The district does include some areas of common at Yarningale Common, Barnmoor Green and Forshaw Heath. The common at Yarningale is the second largest remaining common in the county at just over 17 hectares, second only to Baddesley Common in North Warwickshire. It was once much larger, stretching all the way to the present edge of Claverdon settlement.

Previous areas of unimproved land are found in distinct concentrations. The largest is in the very north west of the District at Gilbert's Green, Terry's Green and Forshaw Heath. Just to the north of Studley appears to have been another area of common. To the west of Alcester appears to have been an area of heathland. Another area is just on the county boundary in the very south east of the District just east of Morton-in-Marsh and south of Wolford Wood.

A final possible area of old common or heath may have existed just south and west of Bishops' Itchington.

Further south at Crimscote Downs another concentration of previous unimproved land once existed. As the name 'Downs' suggests this was probably down land lying just off the Cotswolds.

### Fieldscape

Stratford is the most rural district in the county with almost 81% of the area formed of enclosed fields. Because of the complexity of the fieldscape and the sheer size of the District the discussion of fieldscapes has been broken down into HLC Sub-Types.

### Piecemeal/re-organised Enclosure

### Piecemeal

There is a concentration of piecemeal and re-organised piecemeal enclosure in the north western part of Stratford-on-Avon District, effectively forming a large area bounded by Studley, Alcester and Stratford running north-westwards towards the border of Solihull, Warwick and Worcestershire.

There are some very large areas of contiguous piecemeal enclosure hundreds of hectares in size. This is one of the most concentrated areas of piecemeal enclosure in the county (the total area is almost 5,000 hectares) and shows field patterns from the late medieval period if not earlier.

The reason why this piecemeal enclosure exists here probably reflects the later use and enclosure of this area. Some of this may have been due to the large commons or heathland that were enclosed in the late medieval period. This area may also have been more traditionally wooded, as part of the Forest of Arden, and enclosed later to be used for arable or pasture purposes. There is a lot less formal or parliamentary enclosure in this area and it is likely that the soil type of this area did not have as good agricultural potential as the fields in the south and east of the District.

### Irregular Enclosure

There is a fairly large amount of irregular enclosure in the northern and western parts of the District and again very little in the far eastern part. However, there is also a large concentration in the central part south of Wellesbourne and south west of Harbury. There are also some large patches scattered throughout the rest of the District, for example at Burton Dassett which was enclosed in 1497 (see Alcock, 1982 pp33-36).

It is likely that these fields may have once been piecemeal enclosure and reflect the general pattern shown above.

### **Encroachment/squatter enclosure**

There are four distinct areas of squatter and encroachment enclosure in the District:

- in the northwest, just east of Earlswood;
- on Yarningale Common, just northwest of Claverdon;
- an area just north of Studley;
- southwest of Bishop's Itchington on Itchington Heath.

### **Planned enclosure**

Planned enclosure in the District is also concentrated in certain parts. The largest concentration is in the east of the District with large areas almost covering whole parishes that were subjected to parliamentary enclosure during the 18<sup>th</sup>-19<sup>th</sup> centuries.

Other substantial concentrations are south of Kineton, towards the edge of the Cotswolds, and south of Stratford running from Shipston on Stour to Bidford on Avon.

### **Large rectilinear**

This when combined with planned enclosure forms the most dominant enclosure type.

Most of the south and east of the District has a planned appearance with large rectilinear fields. Whole parishes appear to have been enclosed as part of the 18<sup>th</sup>-19<sup>th</sup> century parliamentary and formal enclosure movement. These areas appear to be the more productive areas of the District especially in terms of arable farming.

These areas have also seen greater change with much more extensive formal enclosure and probably more efficient farming especially in terms of arable production.

### **Very large post war fields**

This is not one of the most dominant field types in the District. However, in some areas it forms huge prairie type fields obliterating the previous field pattern that once existed.

Greatest concentrations appear to be just north, northwest and northeast of Stratford and in a loose scattered band running from Wellesbourne to Kineton and north east towards Southam.

Elsewhere there is a general scattering of this field type showing the late 20<sup>th</sup> century changes in farming practice opening the fieldscape up.

### **Paddocks and closes**

These tend to be in small blocks on the outskirts of small settlements, some of which, such as Napton on the Hill have large amounts of paddocks and closes. The reasons for this are unclear.

### **Floodplain and meadow**

Floodplain and meadow is found in the District along the main river corridors of the Avon, Arrow, Alne, Dean, Stour and the Tachbrook, and along some smaller brooks leading to these rivers.

There are noticeably larger areas on the lower parts of the Avon in the District.

### **Wood clearance**

There is a distinct lack of woodland clearance in the south east of the District with only one concentration in the central part south and east of Wellesbourne on the edges of Walton Park and to the west of Ettington in a line following ancient woodland.

A second concentration is between Snitterfield and Claverdon where there were patches of woodland probably cleared in the 18<sup>th</sup> and 19<sup>th</sup> centuries. Another is in the very northwest at Earlswood, where some clearance may have taken place in the post medieval period.

Smaller areas are next to ancient woodland at Oversley Wood, at Old Park

Wood and around Long Itchington at Print Wood and Long Itchington Wood.

There is no doubt that many other areas especially to the west and north of the District in the area of the Forest of Arden were at one time wooded but the evidence for this woodland clearance or assarting is no longer visible in the fieldscape.

## Woodland

There is an average amount of woodland in Stratford-on-Avon District compared to the rest of the county.

Most is ancient woodland with a few modern coniferous and mixed plantations.

Some broad-leaved woodland has been planted more recently, such as at Priors Marston, but in general most dates back to at least the 19<sup>th</sup> century.

Ancient woodland is especially concentrated on the western and northern side of the River Avon in the traditional Forest of Arden area. Some of these woods are quite large, such as Oversley Wood (almost 100 hectares).

Another concentration of large patches of ancient woodland is in the very far west of the District on the border with Worcestershire. This area was next to and possibly once part of the Feckenham Forest.

Other areas of ancient woodland are found around Earlswood, Woodend and Nuthurst, in a loose band between Snitterfield and Wootton Wawen and between Alcester and Stratford.

The Avon Valley has a distinct lack of woodland, especially ancient woodland.

There is also very little woodland in the south and east and what exists tends to be more recent plantations.

When the previous woodland extent is considered there is an even more pronounced east-west divide. All the areas of ancient woodland mentioned above used to be, in the Medieval period, much

more extensively wooded, forming very large areas hundreds of hectares in extent.

The only exception is the loose band between Southam and Preston on Stour where very little previous woodland has been identified – only at Walton, where most of the present park and the land beyond to the Fosse Way to the east and Wellesbourne Wood to the west, may have been wooded at one time.

## Water

The main river system flowing through the District is the Avon running north east to south west. Flowing into this are a number of tributaries, such as the Rivers Arrow and Alne from the north, the River Stour from the south and the River Dene from the East. In the north east of the District the River Itchen flows into the Leam and eventually into the Avon.

Artificial water bodies include Earlswood Lakes in the very north of the District bordering Solihull Metropolitan Borough. This is a reservoir created to feed the Stratford-upon-Avon canal in 1821.

In the north east of the District Napton reservoir dates to at least 1822 as a feeder to the Warwick-Napton Canal. Similarly, Wormleighton Reservoir is found in the east feeding the Oxford Canal and also dating to at least 1822.

A couple of larger artificial water sites appear to be the result of sand and gravel quarrying at Bishops Bowl (Bishop's Itchington) and to the east of Abbot's Salford on the floodplain of the River Avon.

A number of small lakes and ponds are scattered through the District. Most are modern with some relating to the farming and horticultural industries. A few are older and may be fish ponds originating in the medieval period.

## Industrial

There is less than half the average area of industrial sites in the District when compared to the county average.

The largest site is Gaydon Proving Ground used by Jaguar and Land Rover for vehicle research and testing. It is also the home of Aston Martin and has the Heritage Motor Centre on the site. This like other proving grounds in the county is on the site of an old RAF airfield, in this case RAF Gaydon.

Other large industrial areas are generally found closer to the main urban areas such as the industrial estates on the west side of Stratford near the canal and railway, and northeast of Alcester and north of Studley.

At Wellesbourne part of the airfield has been developed into industrial use.

There are smaller industrial sites close to Southam, Stockton, Shipston-on-Stour and Long Itchington.

## Extractive

There is only half the average for the county in terms of extractive sites in the District. Most of these are the cement works just north of Southam. There have been works in this area related to limestone extraction since the 19<sup>th</sup> century.

The other large extraction site in the District is the Marsh Farm sand and gravel quarry just west of Broom. A small area of sand and gravel quarrying just east of Snitterfield appears to be disused.

There is also a small area of hard rock extraction just north east of Avon Dassett.

Previous extraction sites include the large extensive quarries at Burton Dassett Hills, the quarries north of Bishop's Itchington, clay extraction at Napton on the Hill for the brick works, blue lias and cement works at Wilmcote and the other cement works and limestone extraction sites north of Southam.

## Military

Stratford-on-Avon District has twice the average military areas than the rest of the county. This is because the District contains the huge Defence Munitions Site at Kineton, around 1100 hectares in extent. Built in 1941 as a central ammunition depot for the Second World War it was rebuilt in the 1960s and has continued as one of the largest permanent ammunition depots in the country.

This depot also covers, in its southern part, most of the site of the battle of Edge Hill from the English Civil War.

The only other military installation in the District is a small depot to the north of DM Kineton just to the East of Moreton Paddox and to the west of Gaydon Proving Ground. This small depot site appears to have been where nuclear bombs were stored for the Vickers Valiants bombers at RAF Gaydon during the cold war. It is unclear what it is used for now but the last information known was that it held the national film archives (Carvell, 2007:104).

Previous military installations consist of a number of former Second World War RAF airfields at Snitterfield, Wellesbourne, Long Marston, Atherstone on Stour, Gaydon and Southam. RAF Gaydon continued in military use into the Cold War as a V-Bomber Base carrying nuclear bombs.

Some of the other Second World War airfields have continued uses: Snitterfield for gliding; Wellesbourne for light aircraft with some industrial use; and Long Marston for a flying club, a drag strip and music festivals.

Other previous military sites include the Central Engineers Park south of Long Marston.

## Designed Landscapes

Designed landscapes are concentrated in the central, northern and western part of

the District with fewer in the east and south east.

The largest areas are found east of the Fosse Way running in a loose band northwest towards Tanworth-in-Arden.

These numerous historic parks and gardens form the largest designed landscape areas, sites such as Compton Verney, Walton Park, Ettington Park, Farnborough Park, Charlecote Park, Ragley Park, Barrells Park, Umberslade Park and Alscot Park.

To the east of this parks tend to be smaller, such as Shuckburgh Park, Ladbroke Park, Stoneythorpe Park and Chadshunt Park.

Other large areas of designed landscape are golf courses, which are only in the northern and western parts of the District, being closer to larger urban areas of Stratford, Warwick and the Solihull/Birmingham conurbation. Examples include Tiddington, Welcombe, Ingon Manor, Welford-on-Avon, Bidford, Crockets Manor and Ladbroke Park Golf Clubs.

Small cemeteries exist at Shipston, Stratford, Harbury and Alcester.

The remaining designed landscape is made up of public open space and sports fields either within or close to larger urban areas. Of note is Stratford Racecourse dating to 1769.

In terms of previous designed landscapes, a number of historic parks associated with country houses have been converted to fieldscapes or other historic landscape types. Some, such as Henley Little Park, Henley Great Park, Skilts, Studley, Coughton and Hampton/Fulbrook Parks also appear to have been deer parks dating back to the medieval or post medieval periods.

Some parks surviving today were once much larger while other smaller ones associated with small halls have disappeared completely.

Again there are more parks and deer parks to the west and north of the Fosse Way with smaller parks and a few notable exceptions (such as Compton Verney, Idlicote Park, Honington Park, Farnborough Park and Kineton Park) being found south and east in the District.

## Settlement

Stratford is the most sparsely populated district in the county with 50% less settlement than the average for the county.

The main town is Stratford-upon-Avon. There are a number of smaller towns or large villages that act as focal points such as Southam, Alcester, Shipston-on-Stour, Bidford-on-Avon, Wellesbourne, Studley and Harbury.

There are a number of medium sized villages in the District especially in the west along the main Avon/Arrow river corridors like Welford-on-Avon, Henley in Arden and Wootton Wawen. Smaller villages tend to be in the south and east of the District.

### Stratford:

The town has a large square historic core with a rectilinear street grid which reflects the planned medieval layout. Other historic cores of Bridge Town, Shotton and Bishopton have been amalgamated into the town as a result of 20<sup>th</sup> century expansion. Tiddington and Alveston are still effectively detached from the town, although Tiddington is often regarded as an extension of Stratford.

The railway and canal influenced the development of large blocks of terraced housing in the 19<sup>th</sup> century and early 20<sup>th</sup> century. Industrial areas spread north-westwards alongside the canal and railway towards Bishopton.

In the early 20<sup>th</sup> century a series of detached houses appeared in a linear formation alongside the edge of the historic core of Bridge Town.

Between 1900 and 1955 a large expansion took place of predominantly

detached housing to the north of Stratford and over the Avon to the east in linear strips along the main roads. Further semi-detached housing also sprang up towards Shottery.

Post 1955 development has tended to be infill between these areas with detached housing to the east and on the edges of Stratford and semi-detached housing in between.

Some other unusual settlements exist such as the Model Village between Southam and Bishops Itchington, built between 1900-1955 to house the workers of the cement extraction and factory works found just over the road to the east.

A large number of the villages in the south and east of the District tend to retain the shape and size of their historic core and are usually made up of a number of historic farmsteads. In the north and west of the District the settlement pattern is dominated by dispersed farmsteads.

There are around 82 country houses in the District, concentrated in the north and west.

## Transport

The Stratford-upon-Avon Canal, built between 1793 and 1816, runs from the Avon at Stratford northwards towards Birmingham.

Part of the Oxford Canal passes through the eastern part of the District as does part of the Warwick to Napton Canal (part of the Grand Union Canal)

The development of railways in the District connected Stratford to the rest of England. The Stratford to Moreton Tramway built between 1821-1826 was at first a horse drawn tramway; it later became steam powered. It ran from Stratford to Moreton in Marsh with a branch to Shipston on Stour.

The next line instated was the Stratford – Honeybourne line built in 1859 and dismantled in 1960 that now mostly forms

the Stratford Greenway cycle way/footpath.

Stratford was connected with Warwick and the main railway lines in 1861 with a direct line towards Birmingham that opened in the early 20<sup>th</sup> century; both lines remain in use. The Leamington to Banbury line also passes through the District.

Railway lines also led west from Stratford towards Alcester and beyond and east, with the East and West Junction Railway, towards Kineton, Fenny Compton and eventually Towcester (Northamptonshire); these lines were dismantled post World War Two with only a small section of the East-West Junction Railway still remaining, linking DM Kineton to the Leamington-Banbury main railway line.

Further lines that once existed include the Marton Junction to Weedon branch line connected to the Leamington to Rugby line, for cement works. This was opened in 1895 and closed by 1964.

A number of airfields still exist in use in the District although none as commercial passenger airports. Wellesbourne started as a Second World War RAF airfield and continues to be used for light aircraft although the airfield has reduced in size with industrial development encroaching.

Snitterfield, another Second World War RAF airfield, remains in use for gliding. Long Marston is another RAF airfield still used for a flying club, a drag strip and music festivals.

The M40 motorway passes in and out of the District a number of times running southeast to northwest.

## Civic and Commercial

There is less than half the average of civic and commercial sites in the District when compared to the rest of the county, reflecting the smaller amount of settlement.

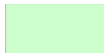
Not surprisingly most of the Civic and Commercial sites are schools and services associated with the main settlements of

Stratford, Southam and Alcester. Some smaller towns and villages have schools and other small sites.

There are larger educational sites at Ashorne Hill College, Horticulture Research International and Moreton Hall.

Camping and caravan parks are mostly on the floodplain of the lower parts of the rivers Avon and Arrow. Large hotels are usually on the sites of old country houses and often include the park associated with them or include newer golf courses, resorts or spas. Examples include Ettington Hotel, Welcombe Hotel, and Stratford Manor Hotel.

## Horticulture



The district has almost 25% more horticultural area than the average for the rest of the county. This is mainly due to

the large commercial orchards in the southwest, often over 200 hectares in extent, mostly post-1880s in creation. This south west area has been traditionally associated with orchards and some are marked here on the OS 1<sup>st</sup> edition especially around Welford-on-Avon.

A number of smaller orchards are dotted broadly along the Avon Valley southwest of Stratford.

Also in this same area are a number of nurseries, mostly post 1955 in origin. Of note is the larger National Herb Centre away from this area near Warmington.

There are a number of other nurseries scattered through the District.

Allotments are within or at the edge of the larger settlements.

## Solihull Metropolitan Borough

### Introduction

Originally part of Warwickshire Solihull Metropolitan Borough was created in 1974 by the merger of the Solihull County Borough and most of the Meriden Rural District. In 1986 the Solihull borough became a unitary authority when the West Midlands County Council was abolished. It remains part of West Midlands County for ceremonial purposes, and for functions such as policing, fire and public transport.

The Borough is 17,829 hectares in size with 203,600 people giving a density of 1142 people per square kilometre. This makes it the most populated district in the project area and second only to Nuneaton and Bedworth in terms of population density.

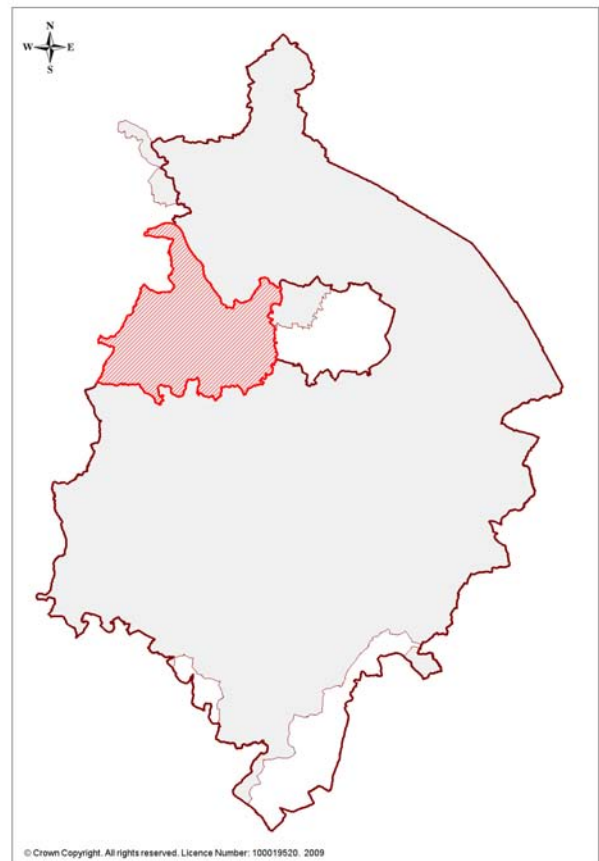
Solihull is where the Borough council has its headquarters. Other large residential populations are found in the northern and western part of the Borough at Castle Bromwich, Chelmsley Wood, Fordbridge, Kingshurst, Marston Wood, Smith's Wood and Shirley. Detached and to the east, Dorridge and Balsall Common make up the other main settlements in the Borough.

Despite this urban element, mainly created by spill over from Birmingham in the 20<sup>th</sup> century, the Borough remains around two thirds rural with Green Belt and fields stretching south and east towards Coventry, Warwick and Stratford-upon-Avon.

The Borough is bordered by the M6 and the M40 and split by the M42 which divides the urban centre of the Borough from the rural south and east. The Borough's transport links have led to a

number of large businesses being established in the Borough, such as Land Rover, the National Exhibition Centre and Birmingham International Airport.

The Borough shares its boundaries with the City of Birmingham to the west and north, the City of Coventry to the east, North Warwickshire District to the north, Warwick District to the south east, Stratford-on-Avon District to the south, and Worcestershire to the south west.



## Summary of Historic Landscape Character

Solihull Metropolitan Borough is the most populated of all the districts in the project area with just over 25 % of the Borough being settlement. Most of the 200,000 people in the Borough live in the large urban west and north with a couple of large settlements, Dorridge and Balsall Common, to the east. However, most of the eastern part of Solihull contains only small villages and scattered farmsteads. The urban development of Solihull has mainly taken place in the 20<sup>th</sup> century and is a result of the outward expansion of Birmingham. Different phases of development and housing types can be recognised and are discussed in more detail below.

The Borough has three times the county average area of civic and commercial sites. This is due to the large population being provided with more services. Indeed most civic and commercial sites are found within or close to the large urban west. However, some very large sites such as the NEC are just outside the urban area.

Most industrial sites are found in the more urban east and north. Large sites include the Birmingham Business Park, Elmdon Trading Estate, the Shirley/Monkspath industrial estates and the very recent Blyth Valley Business Park, which is adjacent to the M42 corridor. The Land Rover motor works is another important industry for Solihull remaining in the Borough since its conception in 1946.

Transport is a dominating feature in the Borough with the very large BHX (Birmingham International Airport) forming the largest single transport feature in the project area. Other transport links such as canals, railways and motorways have made a deep impression on the Borough, all linking Birmingham with other parts of the country.

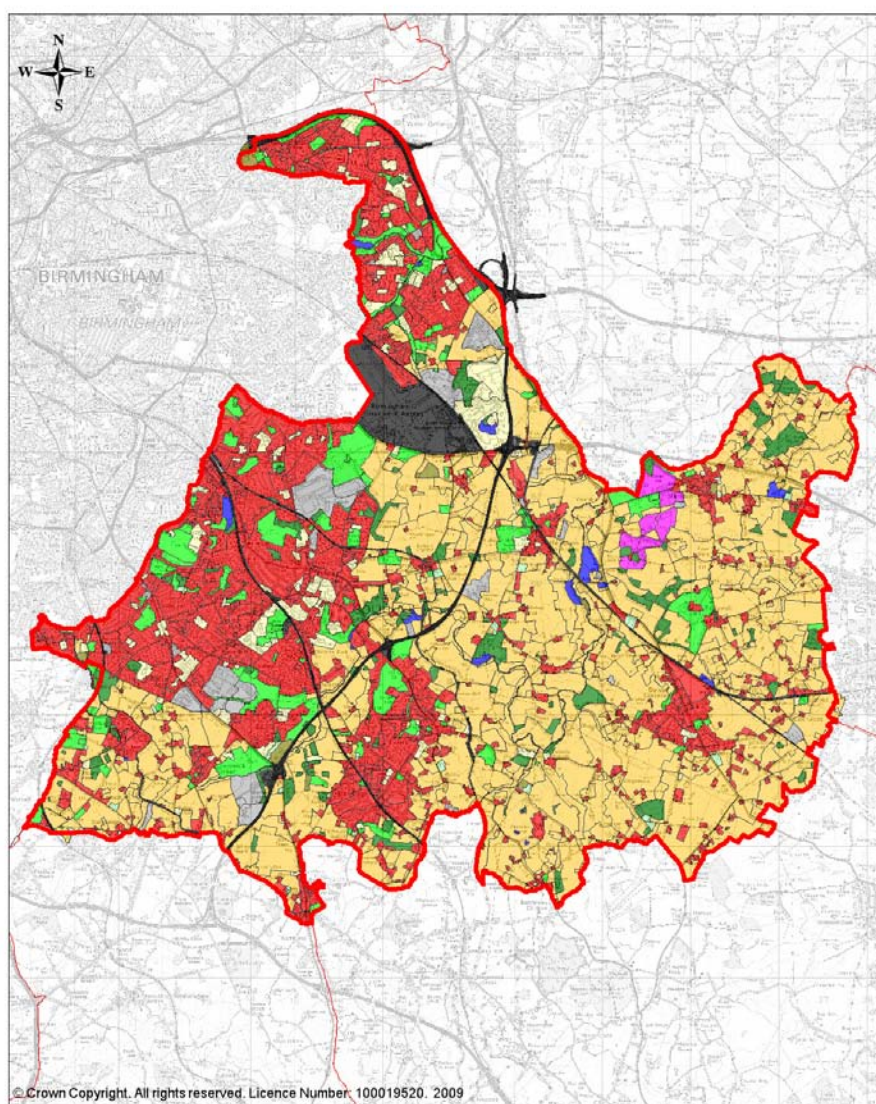
A consequence of all this settlement, industry, transport and services is that only half of the Borough is formed of fieldscapes. Most of the enclosure in the Borough is quite varied. However, there are a number of concentrated areas of certain types. Piecemeal enclosure and irregular fields run in bands from the south east to the northwest. Planned enclosure is also grouped in patches throughout the Borough. Very large post-war fields are in smaller patches and mainly appear to replace piecemeal enclosure. There are also some distinctive areas of encroachment and squatter enclosure over old common/heath at Meer End, Flints Green, Carols Green and Hockley Heath.

Only a small amount of unimproved land remains: a very small and rare piece of heathland in the west and some small areas of common elsewhere. Most of the rest is scrub formed since suspension of minerals extraction. However, there once existed some very large areas of common and heath. The largest was at Balsall Common with other areas at Dorridge and to the south and west of Solihull Town.

The Borough has 50% more designed landscape than the average for the rest of the project area. Most is made up of large golf courses, possibly because of the proximity to Birmingham. There are also a number of historic and modern parks.

Only an average amount of woodland exists in the Borough when compared to the rest of the project area. Most is in large patches in the east with smaller wooded areas in the urban west. Woodland was once much more prevalent across the Borough and this is reflected in place names and some evidence of assarting and woodland clearance.

## Map of Solihull HLC Broad Types

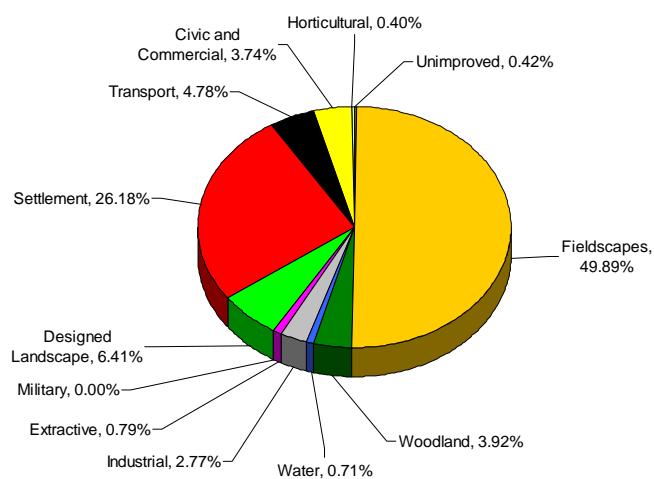


### HLC Broad Types

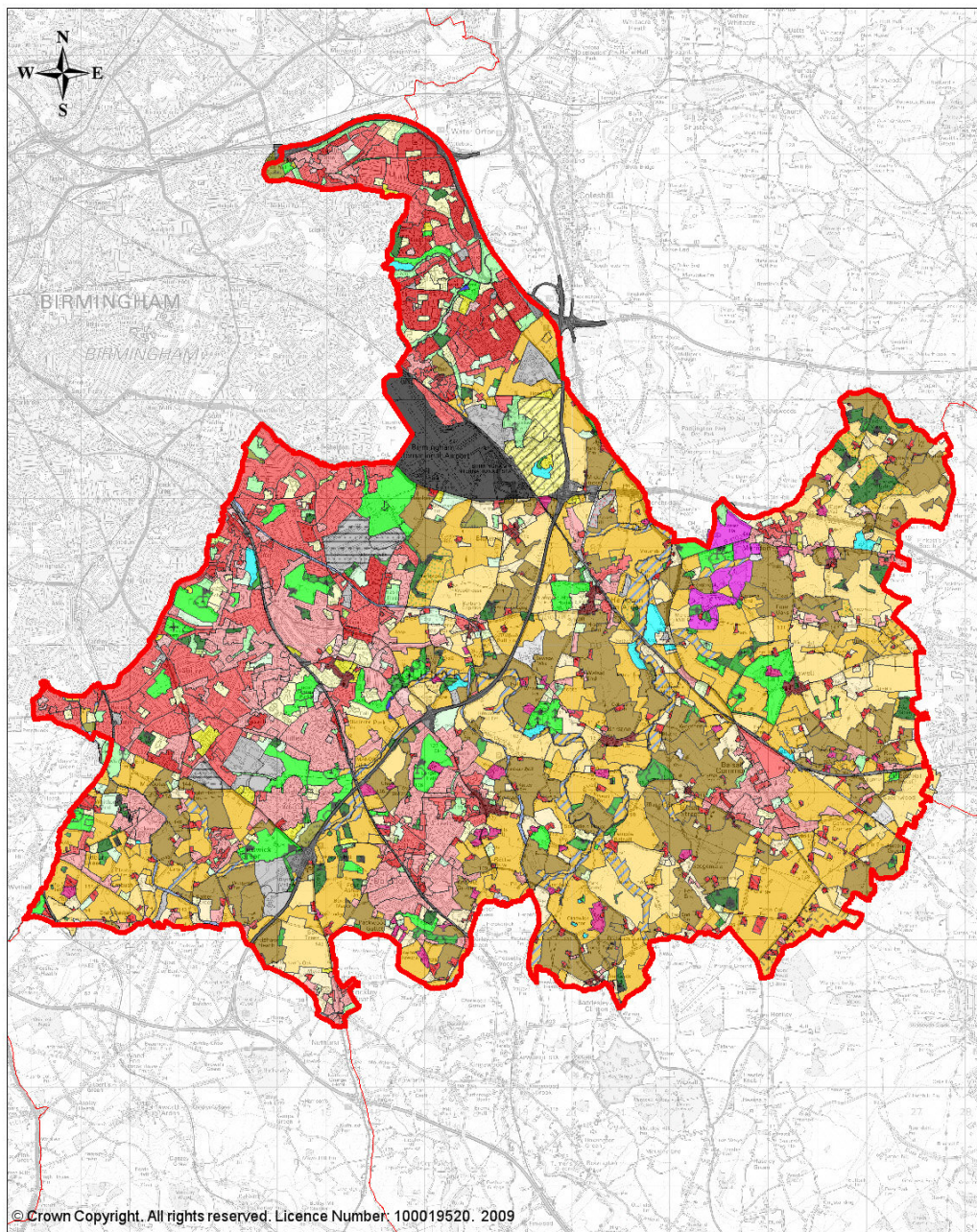
- Civic and Commercial
- Extractive
- Fieldscape
- Industrial
- Military
- Horticulture
- Designed Landscapes
- Settlement
- Transport
- Unimproved
- Water
- Woodland

## HLC Broad Type Statistics

HLC Broad Type	Total Area (ha)	Percentage of District
Unimproved	74.1	0.42%
Fieldsapes	8900	49.89%
Woodland	699.14	3.92%
Water	126.83	0.71%
Industrial	493.58	2.77%
Extraction	140.59	0.79%
Military	0	0.00%
Designed Landscapes	1143.85	6.41%
Settlement	4670.84	26.18%
Transport	852.15	4.78%
Civic and Commercial	666.72	3.74%
Horticultural	70.84	0.40%



## Map of Solihull HLC Types



### HLC Types

- Heathland
- Commons
- Scrubland
- Squatter and Encroachment Enclosure
- Floodplain and Meadow
- Water Meadow
- Irregular (piecemeal) Enclosure
- Planned Enclosure
- Very Large Post War Fields
- Paddocks and Closes
- Woodland Clearance
- Ancient Woodland
- Woods with Sinuous Boundaries
- Broad Leaved Plantation
- Mixed Plantation
- Coniferous Plantation
- Natural Open Water
- Artificial Body of Water
- Marsh
- Industrial Complex
- Motor Industry
- Radio/Telecommunications
- Utilities
- Waste Tip
- Derelict Industrial Land
- Coal Extraction
- Sand and Gravel Extraction
- Hard Rock Extraction
- Clay Extraction
- Cement Works
- Military
- Historic Settlement Core
- Terraced Housing
- Semi-Detached Housing
- Detached Housing
- Flats and Apartments
- Country House
- Farm Complex
- Mobile Home Park
- Park/Garden
- Golf Course
- Cemetery
- Public Open Space
- Sports Field
- Airfield
- Motorway
- Railway
- Disused Railway
- Park and Ride
- Canal
- Municipal and Civic
- Exhibition/Conference Centre
- Camping/Caravan Site
- Commercial and Retail
- Orchard
- Allotments

## Historic Landscape Character Analysis

### Unimproved

There is one small area of heathland at the very south western edge of the metropolitan borough. This type is very rare in the Warwickshire area.

One small area of common lies just on the outskirts of the northern part of Catherine-de-Barnes. The remaining unimproved areas are scrubland, some as a result of mineral extraction, and others as unused areas.

In terms of past unimproved landscapes, the Borough area once had a number of commons or heaths. Locations of some are obvious from place names such as Balsall Common, Bentley Heath, Dickens Heath, Hockley Heath, Copt Heath, Elmdon Heath, Cheswick Green, Marston Green, Fen End, Meer End, Chadwick End and Whitlock's End.

There are probably more place names related to old common or heathland in Solihull than in any other district in Warwickshire.

Former common and heath is also evident in squatter and encroachment enclosure and some of the later very regular formal planned enclosure of heathland areas.

Consequently a number of areas probably formed large commons or heathland. The largest appears to have been around Balsall Common. Other large areas were at Dorridge stretching south west into Warwick and Stratford-on-Avon Districts; to the southwest of the historic core of Solihull itself; and to the north of Birmingham Airport and the NEC around Marston Green and Chelmsley Wood.

### Fieldscape

Around half of the Borough is formed of fieldscapes, a lower proportion than most other districts in the study area.

There are large areas of piecemeal and re-organised piecemeal enclosure including a concentration in a central band

running from the western edge of Balsall Common and Meer End to the eastern edge of Dorridge. It then runs north and northwest towards Birmingham Airport. There are also many very large post war fields in this area that were once piecemeal enclosure.

Another concentration of piecemeal enclosure, more scattered and interspersed with large amounts of very large post war fields, runs north from the northeast of Balsall Common towards Meriden and then northeastwards towards Corley.

Two other medium sized patches of piecemeal enclosure are in the south west of the Borough near Dicken's Heath and Cheswick Green.

Large irregular fields found either in or on the edge of these distinctive areas may have once been piecemeal enclosure.

There are also distinct areas of planned enclosure. That to the south and east of Balsall Common is a clear result of formal planned enclosure of the common or heathland. Other areas lie west of Dorridge and south of Dicken's Heath and Tidbury Green.

Large rectilinear fields probably also showing planned enclosure are also found in a band running northwards from Chadwick End towards Hampton-in-Arden.

Very large post-war fields in these areas tend to have replaced piecemeal enclosure, but also occasionally replaced planned enclosure.

Small paddocks and closes are found on the edges of settlements and farmsteads. One or two of the larger areas of these small fields may have been created from encroachment or squatter enclosure on the common, such as at Hockley Heath.

There are two distinctive areas of encroachment enclosure at Meer End and Flints Green. There is also a small area of squatter enclosure at Carols Green.

In terms of woodland clearance, again these are only found in a few concentrated areas. The first is in the very northeast of the Borough around Meriden Shafts. The second is at Hampton Coppice just east of Elmdon Heath. A couple of small areas are also found at Siden Hill Wood and the old Wakelin's Wood just east of Four Oaks.

Floodplain and meadow are generally only found in the Borough along the main river valley of the Blythe and its tributaries.

## Woodland

The Borough has an average amount of woodland when compared to the rest of the project area.

Most of the woodland is in the rural eastern part of the Borough, although small patches of mainly ancient woodland are found dispersed among the urban areas of Solihull.

Woodland in the Borough tends to be in disjointed patches. The largest area of ancient woodland is in the very north east, including Meriden Shafts, Chantry Wood, Meigh's Wood and Boultsbees Wood. This area once formed a much larger more cohesive block of woodland. Hampton Coppice also used to be a large ancient woodland, but was mostly felled in the 20<sup>th</sup> century.

Other ancient woodland tends to be in smaller blocks scattered across the Borough, places like Frogmore Wood and Monkspath Wood.

Most modern plantations are in a loose central band running from Balsall Common through Barston towards Solihull. There are some large coniferous plantations such as at the NEC and just south of Shirley.

There is evidence of areas where woodland once existed. Parts of Shirley and Dicken's Heath had woodland in the late 19<sup>th</sup> century that has been subsumed by 20<sup>th</sup> century settlement expansion.

The post-war settlement of Chelmsley Wood as its name suggests may have once formed woodland.

There is no doubt that other large areas of the Borough once formed woodland, but little evidence remains for it in the last two centuries.

## Water

The main river system through Solihull flows from south and west to the north and north east and consists of the Rivers Cole and Blythe and their tributaries. Interestingly, the southern boundary of the Borough follows almost exactly part of the main midlands watershed between the rivers flowing north and east and those flowing south and west.

A number of artificial bodies of water can be found in the Borough, mainly next to the River Blythe. Some are commercial fishing lakes, while others are the result of mineral extraction. There are also a couple of small reservoirs in the area.

## Industrial

Most of the industrial areas are found in the more urban west and north of the Borough.

Some small post-1955 industrial sites are in the very north of the Borough. Larger ones such as Birmingham Business Park and Elmdon Trading Estate are found adjacent to the NEC.

Large industrial areas related to the automotive industry are found at Elmdon Heath in the form of the Land Rover Motor Works. This site has an interesting history; it was built between 1936-1938 as a 'Shadow Factory' producing aircraft and tank engines. The factory passed into Rover's hands in 1946 and started producing vehicles by 1948. It is one of the few motor factories remaining in the project area.

The other site related to the motor industry is at Shirley. It appears to be a research

centre related to the automotive industry. It was created after 1955 and appears to have been owned first by Joseph Lucas, then TRW, both making parts for the motor industry.

Other large industrial areas include a complex at Shirley/Monkspath made up of the Shirley Trading Estate and the Monkspath Business Park. This area includes a rare listed 1955 industrial building (the Carr's Papers building) designed by Erno Goldfinger.

A much more recent and large industrial area is the Blythe Valley Business Park which appears to have been developed since 2000. This is a classic example of a very recent industrial estate on the edge of the urban area, next to good communication links (M42).

Other small industrial areas such as scrap yards and depots are scattered throughout the Borough with a fairly large sewage works in the centre of the Borough west of Eastcote.

The Borough has one area of waste landfill just east of Middle Bickenhill. This site appears to have formerly been used for clay extraction.

Previous industrial sites include old sites of brickworks, gas works and sewage works mostly not far from the historic cores of Solihull and Knowle.

## Extractive

There is only one fairly large area of mineral extraction in Solihull and that is just west and south west of Meriden. This area appears to have been developed into sand and gravel extraction after 1955.

This extraction area was at one point much larger and appears to have included the area of the water features found just to the southwest of the River Blythe.

Another fairly large site of extractive work existed to the west of the Borough, now this appears to be a refuse tip but once formed clay works and clay extraction.

A few other small extraction sites are marked scattered throughout the metropolitan borough on the OS 1<sup>st</sup> edition.

## Military

No military sites are present in the Borough.

## Designed Landscapes

The Borough has around 50% more designed landscape areas than the average for the rest of Warwickshire.

Part of this is made up of the numerous golf courses in the area, mostly close to the western urban part of the Borough. Nine large individual golf courses are recorded as well as a couple of driving ranges and some small golf courses such as at Nailcote Hall and Tudor Grange Park. Some of these date back to the first half of the 20<sup>th</sup> century.

A number of parks are scattered through the Borough, with most being close to the western urban area. An exception is Berkswell Park, an historic park associated with Berkswell Hall and once part of a medieval deer park.

The largest park is Elmdon Park, a 100 hectare municipal park owned and managed by the local authority since 1944. Most of the rest of the parks tend to be smaller municipal parks and recreation grounds found scattered throughout the urban area of Solihull.

There are one or two older historic designed landscapes such as Malvern Park and the grounds associated with Knowle Hall and Hampton Manor.

Much of the rest of the designed landscape in the Borough tends to be small sports fields and public open spaces, again mostly within or adjacent to the urban area in the west of the Borough. However smaller sites are found in some of the larger villages. There are also a

number of cemeteries such as the Robin Hood cemetery near Shirley.

Other historic parks once existed, especially in the more rural east of the Borough. These, associated with country houses and manor houses, have mostly been developed into agricultural land. Designed landscape parks used to exist at Chadwick Manor, Springfield Hall, Park Hall, The Firs, Meriden Hall, Allspath Hall, Langdon Hall.

## Settlement

Solihull is the most densely populated district in the project area, with the highest percentage of settlement at just over 25%. This does not include other related areas such as civic and commercial, industrial, parks, transport and other types that together with settlement make up around one third of the Borough.

The settlement pattern of the Borough is highly influenced by 20<sup>th</sup> century expansion from Birmingham.

The old historic cores consisted of small historic towns or villages such as Solihull, Meriden, Berkswell, Barston, Hampton-in-Arden, Knowle, Shirley and Bickenhill.

At the end of the 19<sup>th</sup> century a small amount of settlement expanded out from Birmingham into Olton at the very western part of Solihull. At the same time some settlement developed just west of Meriden out along the road together with a series of detached houses running along the road between Hockley Heath and Solihull just to the west of what is now Dorridge.

The next phase of development saw a large settlement expansion between 1900 and 1955 and especially in the interwar period. This was settlement expansion from Birmingham, creating huge housing estates of predominantly semi-detached housing in the Lyndon, Olton and Elmdon areas, stretching towards Solihull itself. Also at Shirley semi-detached housing estates began to make a huge impact. To a lesser extent the same was taking place at Castle Bromwich.

Closer to Solihull detached houses appear to have been favoured and by 1955 Solihull became joined to Birmingham. Other small areas of detached houses appeared on the outskirts of the old historic core of Solihull.

Some of the small historic cores also started to expand at this point, places such as Hampton in Arden, Marston Green, Hockley Heath and the new area at Meriden. Part of Balsall Common at this time also began to be built on.

After World War II there was another huge wave of expansion, especially in the western part of the Borough. At Castle Bromwich settlement expanded southwards through Smiths Wood, Kingshurst, Chelmsley Wood and towards Marston Green. This predominantly terraced housing gives a completely different character to the area than the rest of Solihull.

Shirley also expanded with predominantly detached housing stretching up towards Solihull and east towards the M42 motorway.

Also at this time Dorridge was 'created' from the expansion south and west of Knowle and the expansion around the railway in the south to meet it. This again is predominantly detached housing.

Other areas that have expanded since World War Two are Balsall Common, Cheswick Green and Dicken's Heath. Meriden saw a little expansion to the village.

Most of the rest of the small villages in the rural south and east have remained little changed since the 19<sup>th</sup> century.

There are a large number of country houses in Solihull, many of them dating back to at least the 19<sup>th</sup> century and some with medieval origins. There is a concentration of these in the central southern part of the Borough with another small concentration around Meriden.

Farmsteads have mainly been subsumed into the large urban developments in Solihull. However in the rural part of the

Borough there is a wide scattering of farmsteads, some forming a more discrete linear pattern of farmsteads along common edges at Meer End and the nucleated farmsteads pattern at Bickenhill village.

## Transport

This is a dominant feature of Solihull with over twice the average area for the county.

The principal transport feature in terms of sheer size in Solihull is Birmingham International Airport, taking up 368 hectares. It first opened in 1939, was requisitioned for the Second World War, and returned to being a civil airport in 1946.

Parts of the Grand Union Canal (Warwick-Birmingham) and the Stratford upon Avon Canal pass through the Borough on their way to the centre of Birmingham.

A number of railways cross the area including lines leading from Coventry, Leamington and Stratford-upon-Avon, all heading towards the centre of Birmingham. The large urban area means there are numerous train stations.

There are small sections of dismantled railways; part of the Stonebridge Railway and a section of the Kenilworth and Berkswell Branch Railway.

Two motorways are found in the Borough: the M42 cuts through the middle and the M6 forms the northernmost border of the Borough around Castle Bromwich.

## Civic and Commercial

Solihull has three times the amount of area of Civic and Commercial sites than the average for the rest of the project area. This is due, in part, to the larger settlement area and the need for more shops and services. It may also be due to its proximity to Birmingham and the opportunity for more commercial sites as well as for more schools and civic services.

Most of the Civic and Commercial sites are made up of schools and these are mainly found in the urban west and north of the Borough. However, there are a large number of commercial centres also in the urban part of Solihull including some quite large retail parks and shopping centres.

The main municipal and civic buildings are close to the Historic Core of Solihull itself with some smaller ones spread throughout the Borough.

The largest civic and commercial site is of course the NEC just to the east of Birmingham International Airport; at around 160 hectares in size it is the biggest such site in the area, if not the region.

## Horticulture

There are no orchards in the Borough.

Allotments are found mainly in small patches associated with the main settlement areas.

A number of nurseries and garden centres are also found in the Borough; some of them are fairly large.

## **Chapter 7 - Applications of Historic Landscape Characterisation**

### **Introduction**

From the very start of the Warwickshire HLC project, requests were made by external partners for data or information about the HLC in order to help inform various studies, projects and strategic planning documents. Initially it was decided not to prioritise characterisation of any particular areas, or to release any data piecemeal. However, once data became available after the digitising stage (stage 2) it was felt that it should be promoted to help further the acceptance and use of HLC. Disadvantages of taking this approach included being unable to provide detailed analysis or a supporting report (which were prepared in later stages of the project). The use of the HLC data also had mixed results with some less successful applications. The following section presents examples of how the HLC has already been used and ways in which HLC could be used in the future.

## Landscape Management

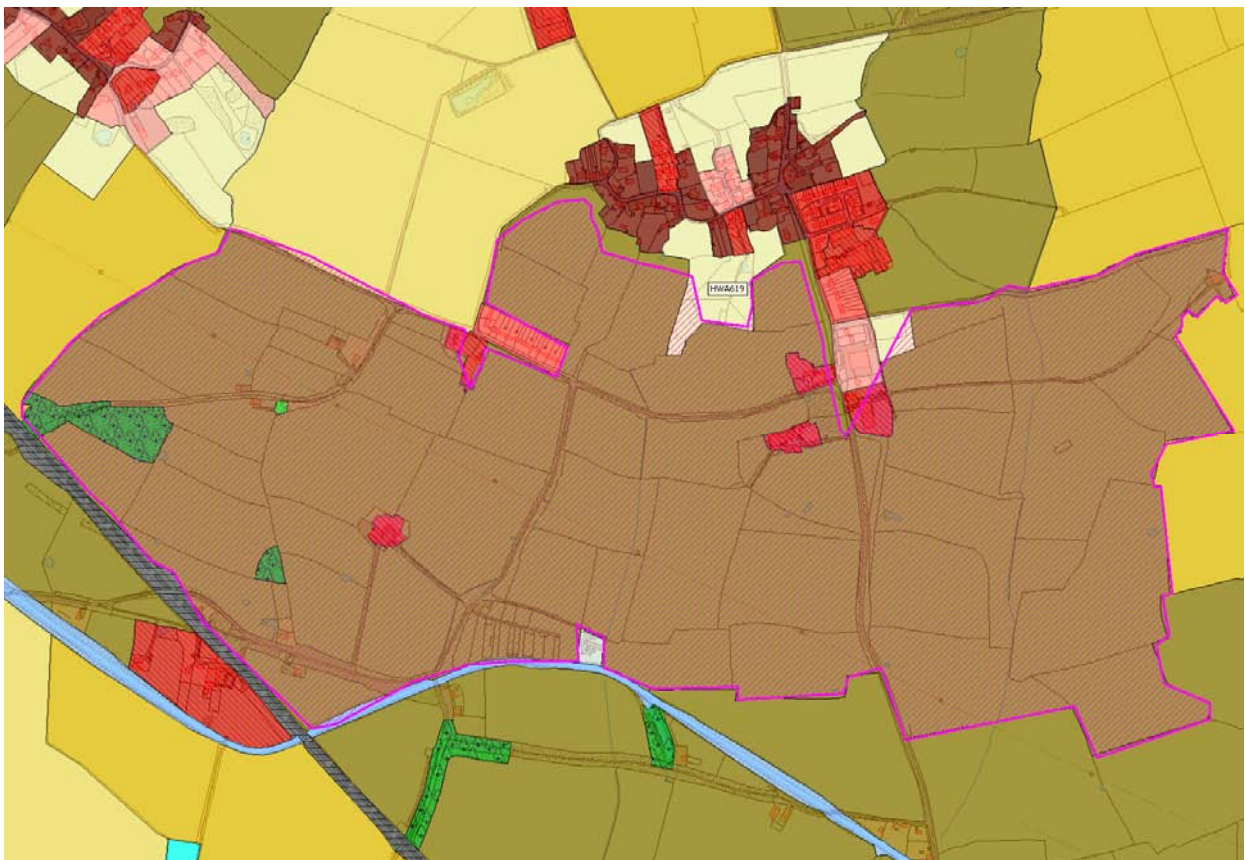
### Agri-Environment Schemes

HLC can help inform Agri Environment Schemes such as Higher Level Stewardship, administered by Natural England. Traditionally only HER data has been used in the preparation of the Farm Environment Plans that inform HLS agreements. HLC looks at the whole landscape, not just individual monuments and specific areas, and improves understanding and management of the historic environment at a farm scale.

HLC is used as one of the data sources when a request for HER data for a Higher Level Scheme FEP is made. Here some interpretation of the HLC material can help highlight to the farmer, the agent preparing the FEP or Natural England as promoter and commissioner of HLS agreements, how an area's Historic Landscape Character might benefit from certain types of management.

Recently Natural England with assistance from English Heritage and local authority HERs developed SHINE, the Selected Heritage Inventory for Natural England, a dataset of historic environment features across England that could benefit from management within the Entry Level Environmental Stewardship Scheme (ELS).

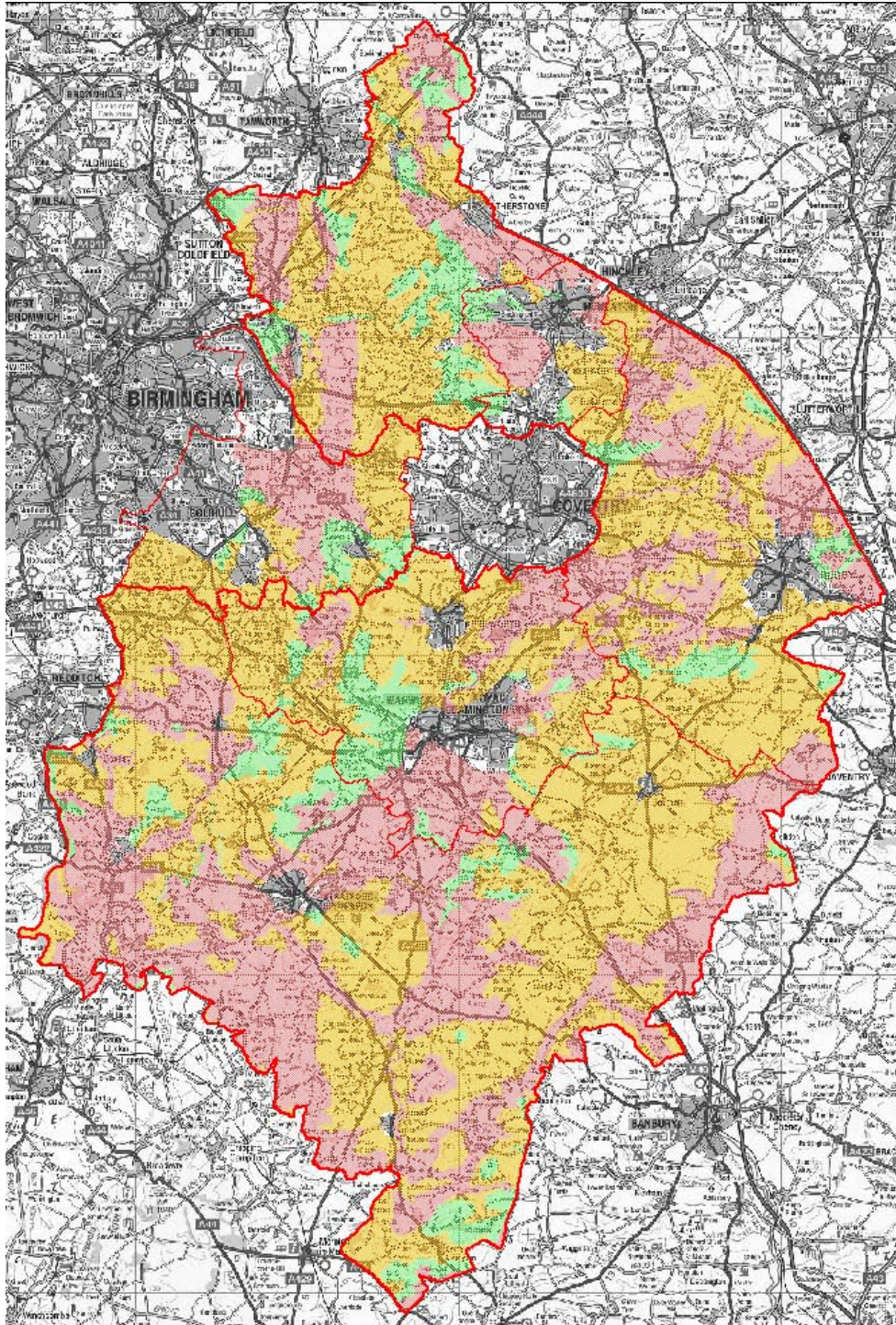
The HLC was used to highlight candidates in Warwickshire, such as the area of piecemeal enclosure at Harborough Magna (shown below). These have now been accepted as SHINE designations.



SHINE Record DWA6332: Fieldscape denoting piecemeal enclosure at Harborough Magna

## Woodlands Opportunity Mapping

When the West Midlands Woodland Opportunity Mapping project was carried out by the Forestry Commission in 2006 the Warwickshire HLC had only just been started and so could not be used to inform the Cultural Heritage Map Layer. Instead an approach was used where a rapid assessment took place across the county using the HER data and including broad historic landscape features.



The Woodland Opportunity Mapping Cultural Heritage Map Layer for Warwickshire  
(Green = Preferred, Yellow = Neutral, Pink = Sensitive).

Now that the HLC data is available the WOM could be updated incorporating the previously defined methodology of using HLC to assess Cultural Heritage sensitivity to (or capacity for) woodland planting.

## **Historic Environment Action Plans (HEAPs)**

First developed in Cornwall in 2003, these are similar to Biodiversity Action Plans (BAPs) and help focus action on the Historic Environment in certain areas.

HEAPs can be developed for particular HLC Types or for specific areas. They should be carried out in consultation with those who will take the actions such as land managers, farmers, national bodies and agencies as well as local communities. There is scope to integrate HEAPs with Parish Plans and Design/Vision statements, and to use HEAPs as a platform for encouraging public engagement and local ownership of the Historic Environment, fulfilling the role in responding to proposed development envisaged in the recent draft PPS15 on Planning and the Historic Environment.

Recent examples of where HEAPs have been developed are the Isle of Wight and Cranborne Chase HEAP projects. These have a mix of area and type based HEAPs and most crucially are driven by historic environment experts working very closely with extensive and very active steering and stakeholder groups. Essential for a successful HEAP is that it doesn't just produce recommendations but turns these into SMART actions (Specific, Measurable, Attainable, Resourced and Time-bound).

HEAPS use both HLC and HER data to understand the issues that need to be addressed in relation to the Historic Environment.

A guidance note on HEAPs is due to be published by English Heritage soon (P. Herring pers. comm., 2010).

## Landscape Character Assessments and Strategies

### Conservation Area Appraisals

Rugby Borough Council commenced an appraisal process of all their Conservation Areas in 2007/2008. This coincided with the HLC data becoming available for the borough and it was suggested that it could be used to help enhance the understanding of the historic environment for each Conservation Area Appraisal.

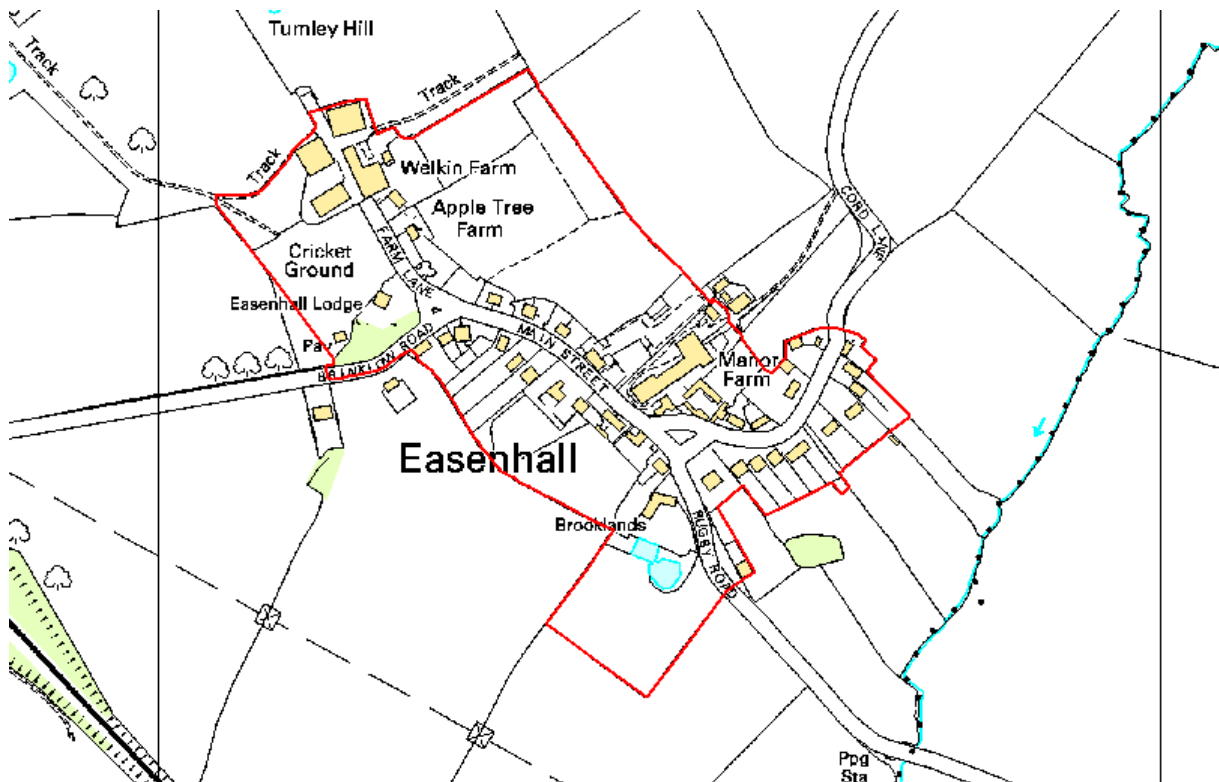
Detailed analysis of each Conservation Area and the HLC records that they contained was carried out and a pro-forma was completed recording:

- Conservation Area Name
- Map of Area
- HLC Types in Conservation Area
- HLC Types adjacent to Conservation Area
- Historic Landscape Character Summary
- Comments

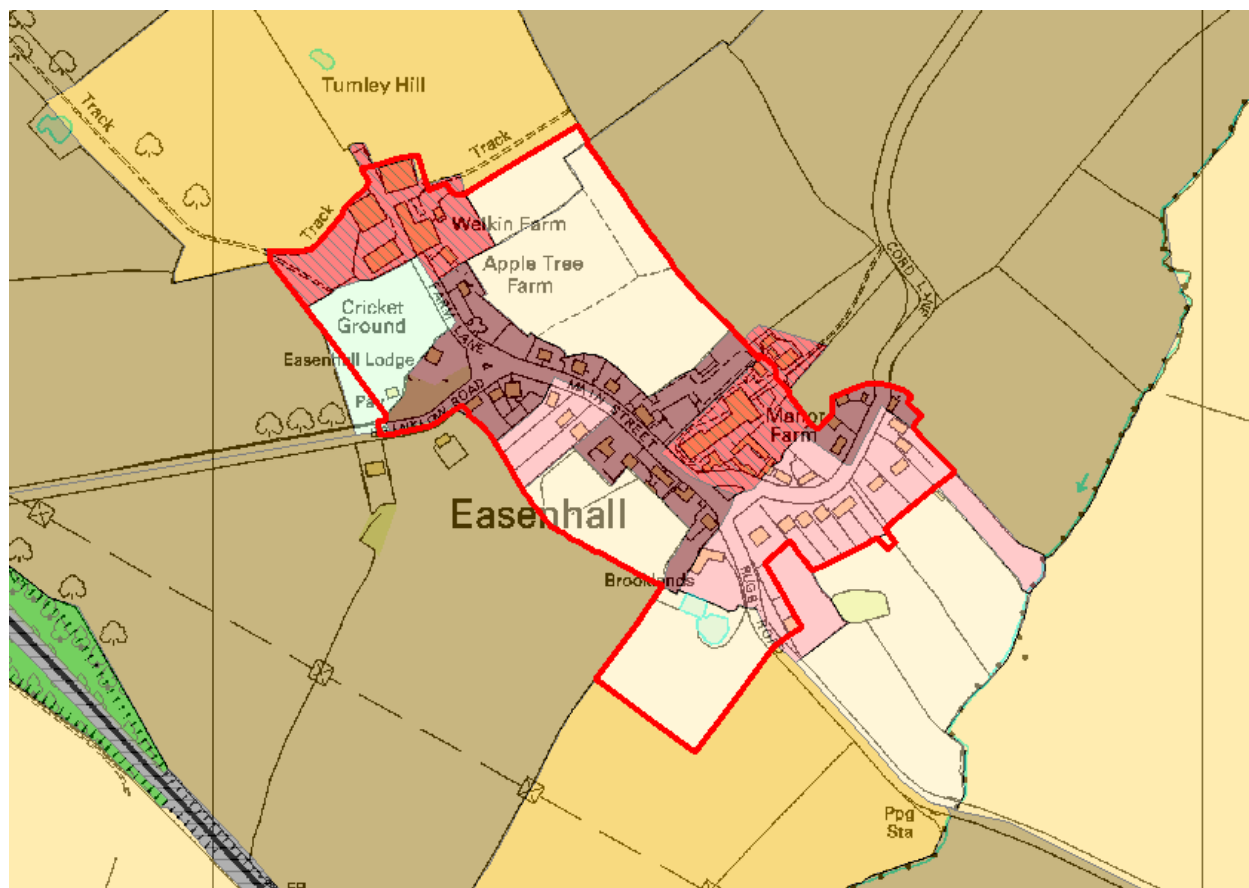
Comments and recommendations were made where it was felt the HLC helped contribute to the understanding of the historic area or where changes could be made to the boundary of the Conservation Area to reflect the historic landscape character better.

An example of one of these recommendations is shown below for Easehall

### Present Conservation Area



## Map of HLC Types in Area



### Comments made:

*“The paddocks just to the south east of Easehall appear to be the remains of strip fields with some ridge and furrow present. This area could be a significant addition to the Conservation Area showing the connection of the village to the agricultural landscape from the medieval period onwards. Elsewhere around the outside of Easehall much of the remainder of the field pattern and character has been altered significantly since the Second World War.”*

A series of short reports for Rugby BC were produced tied in to the phasing of the appraisal process and these were sent to the consultant carrying out the appraisal. This shows that HLC can add an extra dimension and understanding of the historic environment not always appreciated in the conservation area appraisal process. Indeed English Heritage recommend in their guidance (below) that characterisation studies should, where available, be taken into account and inform conservation area appraisals.

English Heritage strongly recommended that Characterisation information, including HLC, should be used in Conservation Area Management.

### CHARACTERISATION

*Understanding an area’s distinctive historic character and how it came to be as it is, is one of the starting points for deciding its future. Characterisation can help to develop an appreciation of an area as the basis for making sustainable decisions on managing change within it. The aim of most historic landscape*

*characterisation studies is to define the distinctive historic dimension of today's urban and rural environment within a given area and its capacity for change, through mapping, describing, analysing and understanding the landscape. Characterisation can assist with Conservation Area appraisals by providing the landscape context of settlements and helping to identify and analyse different 'character areas' or zones within large and/or complex areas.*

(English Heritage 2005a: p12 Section 4.2)

This is further reinforced for Conservation Area Appraisals:

#### CHARACTERISATION

*Characterisation (the mapping, describing, analysing and understanding of the existing townscape or landscape character) is a parallel technique that can help the appraisal process. Most historic characterisation studies define the distinctive historic elements of today's urban and rural environment across large rural areas, or cover the whole of a settlement. They are therefore compiled at a strategic level and can provide a wider context for Conservation Area appraisals and help in defining boundaries, as well as providing some information for sustainable management even beyond the Conservation Area. Some specific characterisation techniques can also be used within Conservation Areas, for example, to identify distinctive 'character areas', or zones*

(English Heritage 2005b: p8 Section 3.2)

#### Conclusion

In light of this and the case study from Rugby it is recommended that all Conservation Area Appraisals use HLC in furthering their understanding of the historic landscape both in and around Conservation Areas.

It is also recommended that the HER and archaeological information in general is better used in the CAA process to understand the historic environment in its entirety.

A list of appraisals and when they are due to take place should be obtained from the local planning authorities so that the HLC, the HER and the Historic Environment can be promoted at the best opportunity.

## **Extensive Urban Survey**

The HLC will form part of the base dataset for a proposed Extensive Urban Survey (EUS) for Warwickshire. The HLC's coverage of 20<sup>th</sup> century development of the selected towns should prove especially useful. HLC's treatment of historic settlement cores was relatively limited so the EUS project will greatly enhance our understanding of the development and character of the selected towns; it will also enable definition of discrete historic urban character areas.

## **Landscape Description Units**

The Landscape Description Units (LDUs) have a variety of uses especially for large landscape projects and for Landscape Character Assessment. Those for Warwickshire are currently at a level 2 stage where they have been mapped at (approximately) 1:50,000 scale and deal with the historic or cultural aspect of the landscape in a relatively cursory way. It is recommended that an upgrading project is designed based on experience in Shropshire where LDUs were compared with HLC and refined to produce an enhanced level 2 LDU data set.

## **Landscape Character Assessment**

HLC could be used alongside the HER, natural environment data (such as the HBA and Biological Records) and landscape datasets (including the LDUs) in any updating of the Warwickshire Landscape Guidelines or replacement of the Guidelines by a Landscape Character Assessment.

## **Historic Environment Assessment (HEA)**

Elsewhere in the West Midlands (e.g. Shropshire and Staffordshire) and in Essex, West Berkshire and Buckinghamshire Historic Environment Assessment projects have taken place. Here HLC mapping is used to identify larger Historic Landscape Character Areas (HLCAs). HER data is then introduced to define and describe Historic Environment Character Areas (HECAs) and where appropriate subdivided into Historic Environment Character Zones (HECZs). These zones can then be assessed and used as an aid in spatial planning especially for larger development projects or to inform Local Development Frameworks.

In Warwickshire it is hoped to use this method to develop a SPD on the Historic Environment for the Sub-region.

## Spatial Planning

### Local Development Frameworks

It has always been intended that HLC would be used for strategic planning purposes and this was certainly one of the main expectations from the Warwickshire HLC project (see Appendix 2). HLC is ideal for strategic planning because it can be used at a broad scale to offer advice and information about the historic landscape to help inform planned change. The 'new' local strategic plan process incorporating Local Development Frameworks (LDFs), commenced just before the Warwickshire HLC project initiated and it was obvious that HLC should play a part in informing LDFs, their reviews and any successors.

In 2008 Stratford-on-Avon District Council commissioned Warwickshire Museum to carry out an Historic Environment Assessment for their proposed strategic sites for development to help inform their LDF Core Strategy.

The HLC was included as part of this analysis with a pro forma and map generated for each site containing some analysis of the Historic Landscape Character and some comments (example shown below). This information was then considered as part of the general comments relating to the assessment of the archaeological potential of each site, the likely impact of the past and future use of the sites on archaeological deposits, and initial archaeological planning recommendations based upon currently available data.

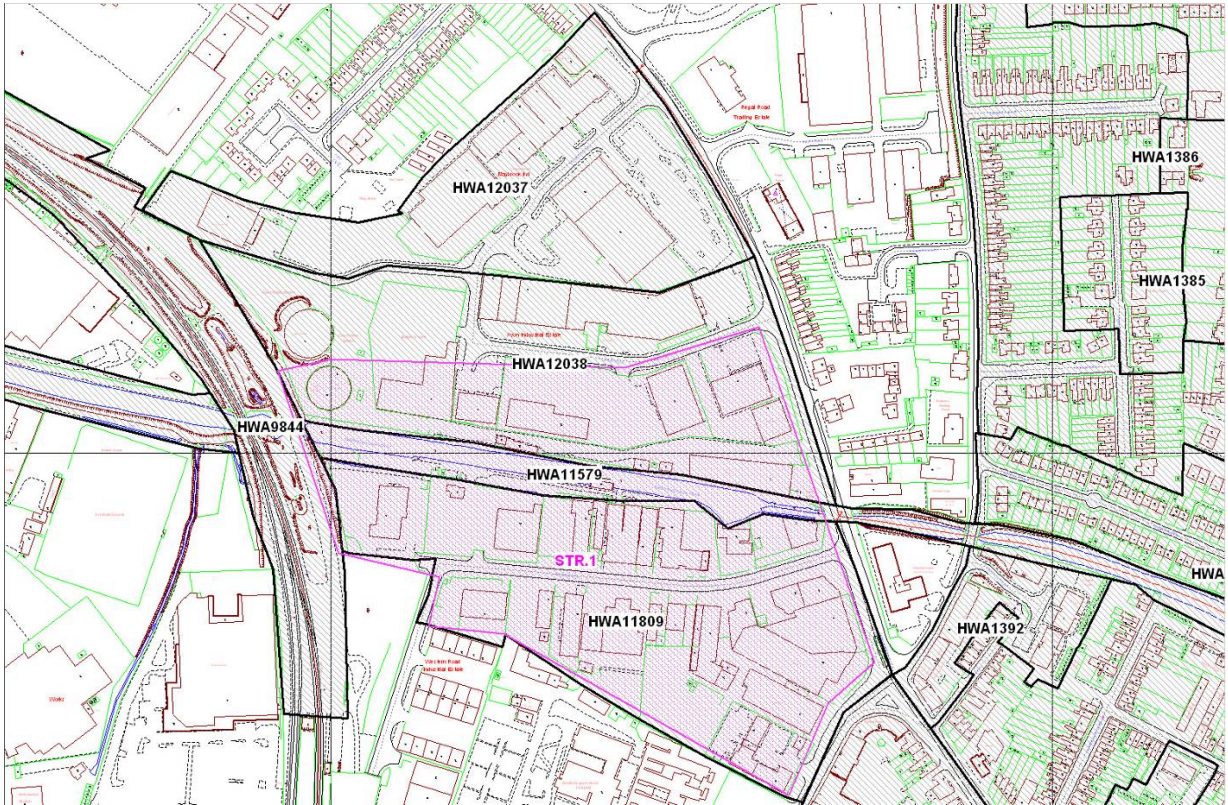
The report is available on Stratford-on-Avon District Council's website:

<http://www.stratford.gov.uk/planning/planning-2733.cfm>

The work was not a full Historic Environment Assessment in the terms of creating Historic Landscape Character Areas, Historic Environment Character Areas or Historic Environment Character Zones and then carrying out detailed analysis of those areas (this approach is detailed as a further use of HLC, above). However, it is a good example of where HLC can play a part in contributing to the understanding of the historic environment as a whole even on a site by site basis and further that this can play a part in strategic planning.

**Site No:** STR.1

**Map:**



**HLC Type(s):**

- Industrial (Post 1955 Industrial Complex)
- Transportation (Canal)

**Other HLC Types in vicinity:**

- Industrial (Post 1955 Industrial Complex)
- Transportation (Railway)
- Settlement

**Summary:**

This site covers two distinct areas of industrial estate (Western Road and Avon industrial estates) which straddle the Stratford upon Avon Canal. These appear in their present form on modern OS maps, post 1955.

Prior to this, by the 1880s, the Avon Industrial Estate formed sidings and goods sheds relating to the Hatton-Stratford Railway. The Corporation Gas Works appeared later between 1900 and 1955.

The Western Road Industrial Estate formed Brick Works marked on the OS 1<sup>st</sup> edition and named as One Elm Brick and Lime Works on the OS 2<sup>nd</sup> edition.

**Points to note:**

This area has had an industrial character for over 100 years relating to the development of both the canal and the railway (both still in use).

As a result of this work and with discussion through the HLC Stakeholder Forum, Stratford-on-Avon District Council added HLC directly into their Historic Environment Policy in their Draft Core Strategy document.

### **Policy CS.26**

*"Historic landscape character should be fully taken into account when proposals for development and changes in land use are being designed or assessed. In particular, proposals should avoid detrimental effects on patterns and features which make a significant contribution to the character, history and setting of a settlement or defined area.*

*(Stratford-on-Avon, 2008: p60)*

Historic character of the landscape is also mentioned more generally in the policy for Natural Features and Landscape.

### **Policy CS.24**

*"The landscape of the District is valued for its local distinctiveness, historic character and for the ways it sustains biodiversity and geodiversity."*

*(Stratford-on-Avon, 2008: p56)*

In February 2010 Stratford-on-Avon District Council released their second draft of their Core Strategy for their LDF, which has revised the policy wording but still notes Historic Characterisation:

### **Policy CS.13 Protecting Landscape and Natural Features**

*"Development should have regard to the distinctiveness and historic character of the District's different landscapes.*

*Development should protect and enhance landscape character and avoid detrimental effects on patterns and features which make a significant contribution to the character, history and setting of a settlement or area."*

*(Stratford-on-Avon, 2010: p54)*

### **Policy CS.14 Protecting Heritage Features**

*"New development should be integrated with its historic context using evidence gained through historic characterisation, and the retention of heritage features secured through sensitive design and layout of development proposals."*

*(Stratford-on-Avon, 2010: p56)*

It is through policies such as these that HLC and the Historic Environment can be taken into account more fully in strategic planning. Studies such as Historic Environment Assessment on any scale can add an evidence base for strategic planners to use.

## Green Infrastructure Planning

Green Infrastructure (or GI) has traditionally been associated primarily with the natural environment as Natural England's recent guidance on Green Infrastructure makes clear:

*'Green Infrastructure is a strategically planned and delivered network comprising the broadest range of high quality green spaces and other environmental features. It should be designed and managed as a multifunctional resource capable of delivering those ecological services and quality of life benefits required by the communities it serves and needed to underpin sustainability. Its design and management should also respect and enhance the character and distinctiveness of an area with regard to habitats and landscape types.'*

*Green Infrastructure includes established green spaces and new sites and should thread through and surround the built environment and connect the urban area to its wider rural hinterland. Consequently it needs to be delivered at all spatial scales from sub-regional to local neighbourhood levels, accommodating both accessible natural green spaces within local communities and often much larger sites in the urban fringe and wider countryside.'*

(Natural England, 2009: pp7)

However there is scope in that definition to include other environment and landscape features and to recognise that the natural environment in England is actually directly related to human action and is therefore also historic. The more obviously historic of the types of Green Infrastructure identified by Natural England (Natural England 2009, p 7) are the following.

- *Parks and Gardens*
- *Amenity Greenspace – including village greens and urban commons*
- *Natural and semi-natural urban greenspaces – woodland and scrub, grassland (e.g. downland and meadow), heath or moor, wetlands, open and running water, wastelands and disturbed ground), bare rock habitats (e.g. cliffs and quarries)*
- *Green corridors – including canals, road and rail corridors*
- *Other – including allotments, cemeteries and Churchyards*

In the GI guidance HLC is directly referenced as a typical evidence base source: *"Environmental character datasets and supporting documents: Landscape Character Assessment, Historic Landscape Characterisation, Sites and Monuments Record (HER)"*.

HLC can best be used by informing GI studies at an early stage and combined with HER data can offer a comprehensive picture of historic environment assets. HLC data has already been used to inform a number of GI studies in the area with mixed results.

## Coventry

Coventry's GI study included a 1km buffer area around the unitary authority boundary and HLC information for this buffer was requested. However, the study does not appear to have used the HLC data.

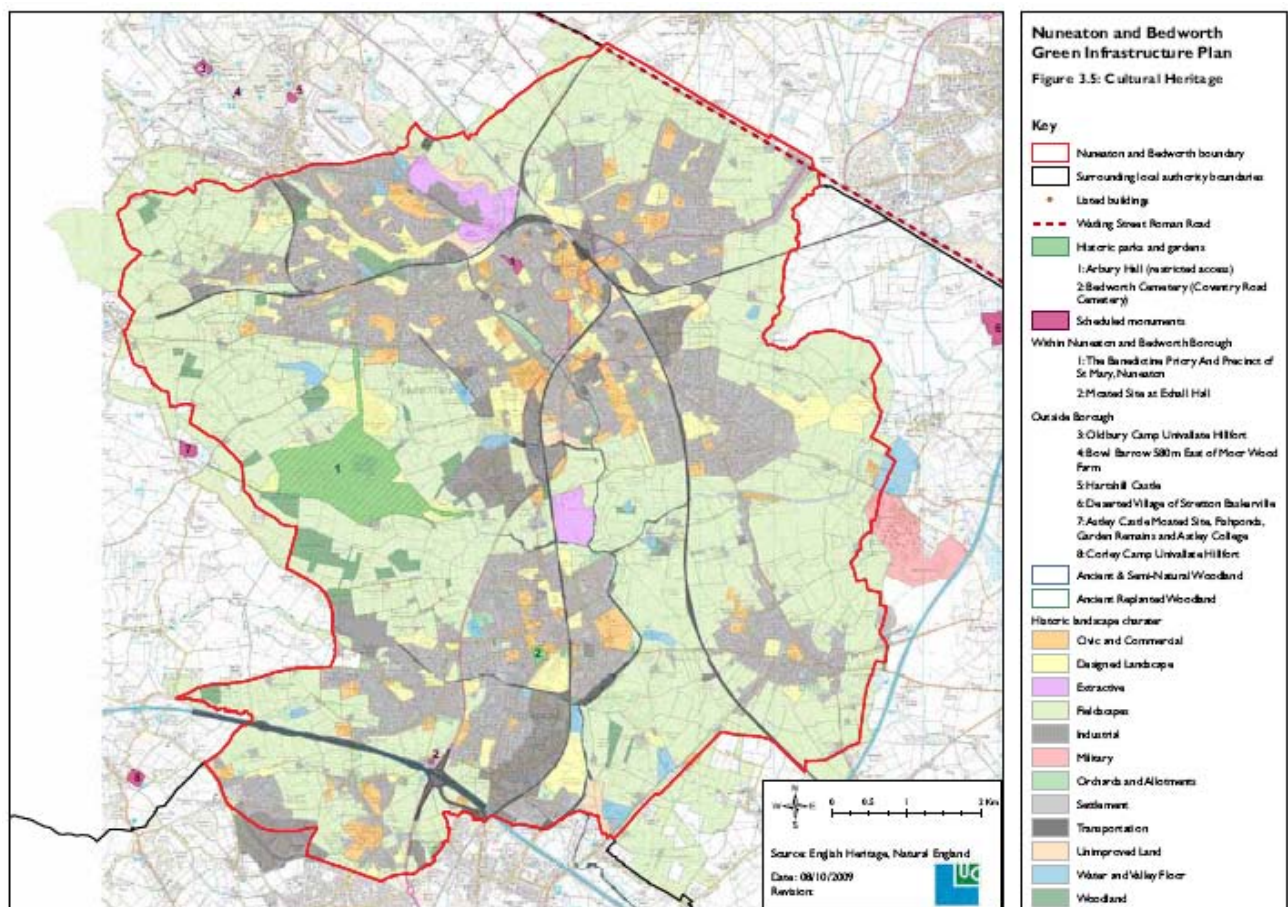
## Rugby

Rugby was the next local authority to carry out a GI study. HLC was promoted at GI project meetings and this time was used and integrated into the report at relevant points. Furthermore, a section in the report listed the HLC types most relevant to GI together with a short analysis of their distribution in Rugby Borough (Entec UK Ltd, 2009). Some of these types helped define GI assets such as Disused Railway Lines which were identified directly from the HLC.

Recommendations from the project refer directly to the historic environment especially in policies and further work needed, such as the identification of Local GI networks where both the HLC and HER are referenced as essential sources of information (Entec UK Ltd, 2009:pp47).

## Nuneaton and Bedworth

The GI study of Nuneaton and Bedworth Borough was carried out to inform their LDF. HLC data helped highlight historic landscapes, designed landscapes and other historic environment features. A section on HLC was included in the report and the data used in a supporting map (shown below)



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## **Conclusion**

HLC can be used effectively in GI studies, ideally at the earliest possible opportunity. The local planning authority and any consultants/contractors carrying out the work should be made aware of its potential at project commencement.

For HLC to be used at all it has to be promoted at the earliest possible opportunity with both the local planning authority and any consultants/contractors carrying out the work being made aware of it as an essential data source.

The Rugby and Nuneaton and Bedworth GI studies are the better examples of using HLC within the project area although in the wider Historic Environment picture they fail to make adequate use of all the HER information available.

## **Development Control**

Incorporating HLC data into the HER makes it immediately accessible to the Warwickshire and Solihull Planning Archaeologist for use in development control work. The HLC summarises the historic character of the landscape of development sites and puts other relevant HER records into context. Text prepared for each HLC type can improve understanding of the potential effect of proposed change and so improve decision making. Where no HER records exist an understanding of the HLC can still suggest what impacts may be expected and can therefore influence advice regarding the appropriateness of applications and placing conditions for archaeological appraisal and mitigation works.

## Partnership, Learning and Outreach

### Farmsteads

Historic farmsteads play an important role in contributing to landscape character, yet are poorly represented either by statutory protection or by being recorded in HERs. In 2005 English Heritage produced preliminary character statements in respect of Farmstead Character for each region in England. Subsequently, a series of documents regarding farmsteads was also produced relating to managing farm buildings and securing where possible their long-term sustainability. In these documents EH recognised that the restructuring of the agricultural industry, combined with demand for economic and especially residential use, has led to many historic farmsteads being redeveloped in a manner that has altered their character or function. Over the last century many farmsteads have been destroyed entirely, but their true vulnerability remains unknown.

In response to the poor evidence base for historic farmsteads EH commissioned a pilot project in West Sussex to map and record detailed information about historic farmstead character. In 2008 following this pilot project EH started on the West Midlands Farmsteads and Landscape Project (with funding from the RDA), a region-wide project to characterise all historic farmsteads identifiable on OS maps from around the turn of the 20<sup>th</sup> century. The material produced would help local authorities make more informed decisions about the future of farm buildings.

The project had a two phase approach (completion due in early 2010) and because the Warwickshire HLC had already recorded around 3500 historic farmsteads, the phase one details for many sites already existed.

In the second phase those farms that had not been picked up by the HLC project such as farmsteads destroyed since 1900, field barns, outfarms and smallholdings were recorded. Additional information was also recorded including a much more complete picture of the character of each historic farmstead. This included recording farmstead plan type (primary, secondary and tertiary), farmhouse position in relation to farmstead, Listed Buildings, survival, potential for reuse, position of modern sheds, etc.

This phase two project contributes to a West Midlands region wide consistent data set while acting as an enhancement of both the HLC and HER in Warwickshire and Solihull. In early 2010 a regional report will be produced by English Heritage together with other documentation, webpages and a toolkit to help people use the data and understand Historic Farmsteads in their area especially when considering development or change.

### Conclusion

Although farmsteads were already being recorded as part of the HLC project, this example shows how the HLC can be used to form the baseline dataset for a specific aspect of historic character.

## **HER Enquiries**

Because the HLC data is added directly to the HER it can be easily provided alongside sites and monuments information, as for the Rugby Green Infrastructure Study mentioned elsewhere.

Obviously the relevance of the HLC data varies between queries. When dealing with a localised query the HLC provides a background historic landscape context and so suggests lines of more detailed enquiry. When larger areas are investigated HLC provides help in establishing likely age, function and archaeological potential of more general patterns.

## **Ancient Woodland Mapping**

HLC (and the sources it draws upon) could also be used to update the Ancient Semi-Natural Woodland mapping. The current mapping (developed by the Nature Conservancy Council) omits blocks of woodland less than two hectares in extent.

The HLC has identified a number of smaller woodland sites that could potentially be classified as Ancient Woodland although as the earliest HLC source maps showing woodland are from 1822. Further work would be required to establish that this woodland can be dated back to the 17<sup>th</sup> century.

## **HBA**

The Warwickshire Habitat Biodiversity Audit team have expressed an interest in using the HLC data as an alternative mapping of certain habitat types such as woodland, scrub or water features. Previous HLC type information will also show how habitats have changed over time.

This may be one of the first times that HLC data will have been used to inform an HBA in this way.

## **Research**

HLC material, being essentially a spatially organised scheme of historical interpretations, supports and stimulates large scale landscape analysis. A great variety of research topics could be addressed, as identified from the HLC Broad Types and HLC Type analysis and the County-wide analysis.

Some substantial research has already taken place nationally using HLC material or the HLC methodology such as at Newcastle University where a review of the HLC programme has taken place exploring its political and practical context (Winterburn 2008). The Historic Field Systems of East Anglia project developed from HLC to refine understanding of the variety of field pattern forms in that part of England (Martin and Satchwell 2008). Earlier landscapes have been abstracted from the HLC for Cornwall and have contributed to enhanced understanding of medieval and late prehistoric change (Turner 2003; Herring 2007). Newcastle and Edinburgh Universities have also used the concept of HLC in Thrace a historical and geographic area in southeast Europe (University of Edinburgh 2009).

## **Outreach Initiatives Community and Education**

There is great potential for HLC to be used as a resource for Outreach initiatives. The HLC Toolkit project aims to deliver HLC to members of the public wishing to know

more about their local area (for further information see Chapter 8). HLC can serve as an educational resource fitting in the national curriculum in both history and geography and covering topics such as the agrarian revolution, open field farming and parliamentary enclosure.

## **Chapter 8 - Dissemination**

### **Introduction**

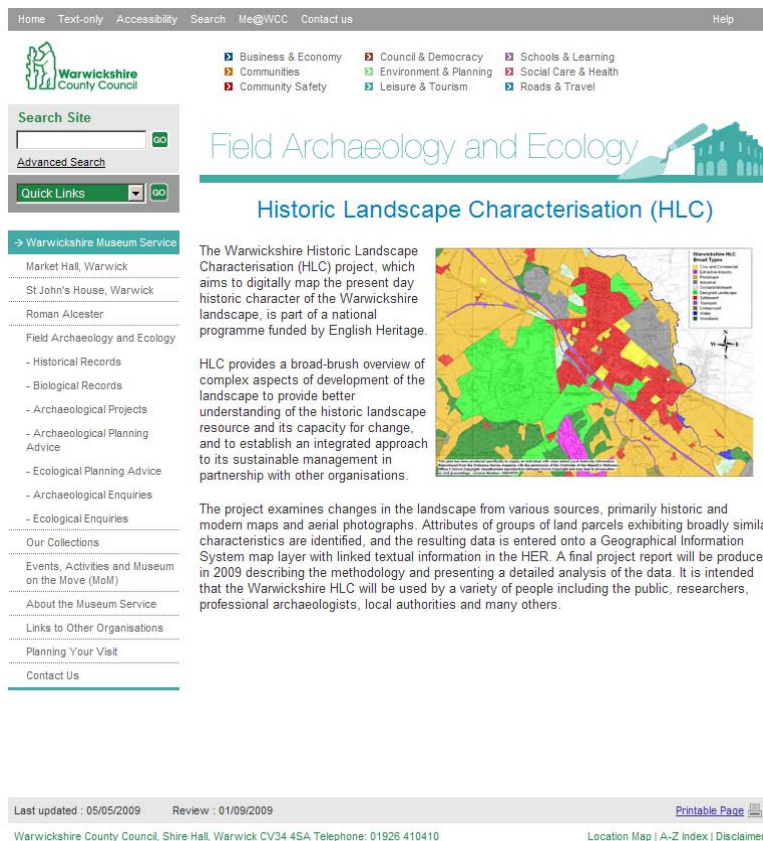
An important part of any HLC project is the dissemination of results. Time and budget constraints can make it difficult to successfully circulate information to the diverse stakeholders and potential users, but dissemination remains one of the keys to HLC becoming more widely accepted and understood. This chapter highlights the methods of dissemination planned for the Warwickshire HLC.

## The four products that will be disseminated:

### Final Report

This final report contains detailed information about methodology, results, uses of HLC and future proposals. It is a key document for anyone interested in the project or wishing to use the data. The report will be produced primarily as a digital copy in PDF format available through the following media:

- On CD, with a limited run produced and further copies on demand
- Through the Warwickshire County Council Website (example shown below) (<http://www.warwickshire.gov.uk/hlc>)



- Through the online HER website (<http://timetrail.warwickshire.gov.uk>)
- Hard copies are not being produced because of the high cost and relatively low use.

## Iconic Map

The iconic map is a map that shows the HLC data in a way that offers some detail and understanding of the Warwickshire landscape at a broad level but uses minimal different types to avoid confusion and overloading the viewer with too many colours and too much information. The Warwickshire Iconic HLC Map has 20 HLC Types that have been selected to represent Warwickshire's Historic Landscape Character.

A limited run of the Iconic Map of the Warwickshire HLC has been produced as an A3 poster and distributed to stakeholders.

Further maps will be produced as individual PDFs and made available on the CD and websites. Below is a provisional list of maps:

- Warwickshire HLC Broad Types
- Warwickshire HLC Types
- Warwickshire HLC - Urban Detail
- Warwickshire HLC - Countryside Detail
- HLC maps for each district for Broad HLC Types and HLC Types
- Period maps showing the Historic Landscape Character, and gaps in our current understanding for the following periods
  - Medieval
  - Post Medieval
  - 19<sup>th</sup> Century
  - Early 20<sup>th</sup> Century
  - Late 20<sup>th</sup> Century/Present

## Summary Booklet

While there will not be hard copies of the main report, it is envisaged that a summary booklet will be produced as a hard copy, with a limited run, and distributed to stakeholders and others interested in the HLC. It may be possible to print further copies of this booklet later, on demand.

The summary booklet will have the following sections:

- Executive Summary
- Introduction

An introduction to the Warwickshire HLC project with details about the history of the project, project area, brief methodology and explanation of HLC types
- District Analysis

A summary of the Historic Landscape Character for each of the districts covered by the Warwickshire HLC
- Using HLC

Some examples of HLC use in Warwickshire, with further potential uses also listed
- Accessing HLC

Details of how the HLC data and full report can be accessed
- A copy of the Iconic Map (see above)

## HLC Toolkit

Two bespoke HLC Toolkits will help deliver HLC to two key audiences; professionals who wish to use HLC (such as planners and conservation officers) and members of the public interested in discovering more about the past of Warwickshire.

Although present dissemination methods make the data available, and the reports often have detailed explanations of project methodology and HLC analysis, this does not necessarily mean that the information can be readily understood or used by non-specialist archaeologists, other professionals or members of the public.

The solution is an easy to use toolkit, made available online, that aims to describe HLC simply and explain what it can be used for.

The toolkits will include sections on

- An introduction to HLC
- The Warwickshire HLC Project (background, project area, methodology)
- Results
- Analysis
- Using HLC (how to use and understand the GIS, the dataset behind the polygons (the HER data) and how to access the report and its more expanded text)
- How to access further information on HLC
- FAQ

It is hoped that the toolkit will have a style and function similar to the Warwickshire Local Studies Toolkit, an Aggregates Levy Sustainability Fund project carried out by Warwickshire Museum with help from the Warwickshire County Record Office. This toolkit is available online at: <http://timetrail.warwickshire.gov.uk/toolkit.aspx>

## **Where the data can be consulted:**

### **HER**

The Warwickshire HLC has been added directly into the HER. Adding HLC records directly into the HER has a number of distinct advantages:

- Monument records can be directly linked to HLC records.
- HLC records are visible and play an active part in contributing to monument and other HER records.
- HLC records can be accessed directly by anyone viewing the HER including (in Warwickshire's case) the Planning Archaeologist, County Archaeologist and other archaeological staff.
- HLC records can form part of the standard search for HER information carried out by commercial organisations, researchers or members of the public.

In short it means that the HLC material is visible and will be actively used.

## How the HLC and dissemination depends on partnership and champions:

### Stakeholder Forum

Three HLC Stakeholder Forums have taken place (just after the pilot stage, close to the end of the digitisation phase and the last at the end of the project). These have usefully engaged key stakeholders with the HLC project; not only informing them about the HLC and its progress but also allowing a two-way relationship to develop where comments, suggestions and ideas can be taken on board while the HLC project is running and once it is complete.



HLC Stakeholder Forum in action

### Publicity

Another key part of dissemination is publicity and making others aware that the project exists and how the HLC data and report can be accessed.

For the Warwickshire HLC project it is hoped to publicise the end of the project in the following ways:

- On the Warwickshire County Council website news section
- On the Warwickshire Museum's news webpages
- On the Warwickshire County Council Intranet news section
- Through the online version of Warwickshire View (a publication aimed at Warwickshire's citizens)

Further publicity has been reserved for the HLC Toolkit including local newspapers, press and other websites.

## Internet

Another key part of dissemination is making information accessible via the internet, using the Warwickshire County Council Website and the online WCC HER website. In addition to making a digital version of the report available online, more concise information about HLC, together with relevant images and maps may be uploaded.

Links can also be made to other relevant websites, such as:

- English Heritage's Characterisation webpages  
(<http://www.english-heritage.org.uk/server/show/nav.1293>)
- The HELM (Historic Environment Local Management) website  
(<http://www.helm.org.uk/>)
- The Heritage Gateway website  
(<http://www.heritagegateway.org.uk>)
- The Landscape Character Network  
(<http://www.landscapecharacter.org.uk>)

Further use of the internet will play a key role in the HLC toolkits which are described above.

## How dissemination might be extended in the future

- Make the HLC data available online.

This has already been achieved to certain levels in some parts of the country although the requirements means that uploading of full interactive and interrogatable HLCs is still problematic. It may be expected that these difficulties will eventually be overcome, and that the Warwickshire HLC will be placed online. In the meantime most effort will be put into raising awareness of the data, through the toolkits, web presence of reports and summaries.

- Regularly promote the HLC linking it to enhancement projects or regular updates to the HLC data
- Routinely include HLC in other projects, as landscape context and source of research questions. It should be expected that all projects will in turn enhance understanding of the HLC.
- Encourage use of HLC by a wide variety of people.



## **Chapter 9 - Recommendations**

### **Introduction**

The completion of the Warwickshire HLC project should signal the beginning of the day to day use of HLC, its promotion across the county and a plan for its future.

This chapter looks at possible enhancement projects for the HLC and how it can best be kept alive as a dynamic entity and used on a day to day basis. Recommendations are made in order of priority and at the end some suggestions are made on possible database enhancements.

## **REC 1: Use of HLC by the Historic Environment Team**

The most important way that HLC can be kept at the forefront of the historic environment is to make sure that it is actively used by the county's Historic Environment team and by visitors to and users of the HER. It can be suggested that few HERs put sufficient resources into training and advocacy with regard to HLC. Warwickshire CC is aware of the range of benefits that will flow from full use of HLC.

The key members of the team that are best placed to use the HLC include the Planning Archaeologist, County Archaeologist, and HER staff. However, it is the very fact that the HLC material forms part of the HER database, and can act as a context for, and explanation of the HER, that allows it to be such an actively used and dynamic dataset.

Consequently, it is recommended that:

**Use of the HLC material by Historic Environment staff working on and with the HER should be facilitated by a programme of training, the development of model queries, and the dissemination of results of in-house HLC-related research. In addition the benefits of using HLC alongside other HER data will also be set out to all external users of the HER; HLC training to be arranged and advertised as appropriate.**

## REC 2: HLC Data Online

One of the best ways to make the HLC data more accessible to others is to make the data available online. This could be achieved in a phased approach by first making the GIS data available on Warwickshire County Council's Corporate GIS, WOMBAT (Warwickshire Online Mapping and Browser Toolkit), then subsequently investigating the possibility of making the GIS data available on Warwickshire's online HER; Timetrail.

The WOMBAT system, or something similar, may itself become available over the internet through the Warwickshire County Council website and so the information may be able to be accessed from multiple areas, in the same way as HER data is now available through our own system and through the Heritage Gateway.

One issue is that only the GIS data would be made available and not the linked record which contains much more detailed information and time-depth. The possibility of adding the more detailed record information in due course, as technology and capacity permit should be investigated.

The other area to consider is the understanding of the data and the individual HLC types. Links could be made to individual PDFs for each type with its detailed description and analysis.

Consequently it is recommended that:

**The HLC data is made available to all at Warwickshire County Council through the Corporate GIS system: WOMBAT**

**The HLC data should be made available to the wider world through the Warwickshire online HER (Timetrail), through Heritage Gateway, through an internet version of WOMBAT or a combination of all three.**

### **REC 3: Secondary enhancement of the HLC**

Secondary HLC work can take place to supplement the main HLC work and dataset. This secondary enhancement could be in the form of investigating one particular HLC Type in detail or studying one particular area in the landscape.

**Secondary HLC enhancement projects should take place as and when opportunities arise. The products of this work should be used to enhance the HLC data where appropriate.**

To allow for any changes to the HLC a fixed point in time HLC dataset has been produced showing the HLC as of October 2009. This has been archived as a digital copy with other HER datasets.

## **REC 4: Cotswolds AONB Area Enhancement**

The Cotswolds AONB area within Warwickshire formed part of an earlier HLC project and although the results of these are available in GIS it is felt that Warwickshire HLC records should be added for this area to give a more consistent dataset throughout the county and especially in Stratford-on-Avon district. This would be beneficial for a number of reasons, not least development control, strategic planning and also responding to HLC enquiries for this area.

This enhancement could be carried out by using the Cotswolds HLC data as a basis to form the records and then applying the Warwickshire HLC methodology to ensure that the HLC records conform to the Warwickshire HLC types. Some HLC areas and records would have to be added for such things as more detailed settlement types and differences in HLC types but overall the enhancement project should be a fairly rapid one.

Consequently it is recommended that:

**The part of the Cotswold AONB area that falls within Warwickshire should be added to the Warwickshire HLC dataset to produce a consistent dataset for the County and Stratford-on-Avon District.**

## **REC 5: HLC Data Tidying**

Some simple data tidying of the HLC records to make them uniform across the county could be carried out as part of general HER record enhancement.

**111 HLC records have the 'certainty' field blank – these should be added.**

**99 HLC records have the 'year to' field blank – these should be added.**

**900 HLC records have no summaries – These should be added.**

## **REC 6: HLC Documentation Enhancement**

Further enhancement of the documentation of the HLC project could take place.

**To add a 'Detailed Historic Processes' section for each HLC Type in Chapter 4 of this report as can be found under the HLC Broad Types chapter (Chapter 3).**

**To use the HLC to write a 'County Narrative' period by period summary of the Historic Landscape Character of Warwickshire.**

## **REC 7: Additional Map Sources**

Although a wide range of map sources was used in the HLC project there are a number of other sources that were not used or considered due to timescale and cost implications. Below is a selective list of map sources that should be added as an enhancement to the HLC.

**OS 1<sup>st</sup> edition 1 inch to 1 mile maps dating to 1828-1835 (reprints though to 1880s).**

**Yates's map of 1793 which shows woods, commons, parks and some settlement detail.**

**Enclosure, tithe and estate maps that predate the OS 1<sup>st</sup> edition (6 inch to 1 mile, 1880s edition). These could be scanned and digitised as a separate enhancement project.**

## **REC 8: Della Hooke's Historic Landscape Analysis Work**

Work has been carried out by Della Hooke recording historic landscape features across the county including, where possible, medieval landscape features. These could be possibly scanned and then analysed in some detail with the information used to inform the HLC

**Consider an enhancement project scanning Della Hooke's Historic Landscape Analysis work and then informing the HLC with the results.**

## REC 9: Historic Landscape Mapping Research Themes

(This recommendation is taken from the Research Themes section of the Archaeological Resource Assessment of the Aggregates Producing Areas of Warwickshire and Solihull Draft Report (Alexander, 2008, p128-129))

**“Consider the development of an over-arching framework within which local or parish based studies can be placed, possibly a rolling program involving outreach and local communities.”**

This is a worthwhile suggestion that should be investigated to encourage further use of HLC.

**“Historic information about the landscape that could perhaps be digitised includes:**

**Early information:**

- Earlier Anglo-Saxon ‘folk’ territories
- Anglo-Saxon minsters and their parochiae
- Anglo-Saxon multiple estates, their caputs and functional elements
- Place names and their constituent elements
- Domesday Book data

**Landuse:**

- Field systems, woodland, meadows, pasture, commons and waste, parks
- Original extent of medieval ridge and furrow
- Other elements of medieval landscape exploitation such as meadows, pasture and woodland
- Extent of enclosure agreements and Acts

**Settlements:**

- Identification of all settlement sites appearing on historic mapping, extent at a range of periods, any planned elements and phases that can be identified, areas of shrinkage. Particularly valuable in Arden.

**Tenorial patterns and organisational structures:**

- Medieval and later tenorial patterns; including Royal and monastic holdings, manors etc.
- Administrative structures including medieval vills and townships, hundreds
- Tithe maps and apportionments

**Transport network”**

These could all feed into enhancing and informing the HLC dataset and many of these should be considered as part of HER enhancement rather than specifically HLC enhancement.

## REC 10: Regular Large-scale Updating of HLC

HLC projects produce data that describe the current landscape in terms of Historic Character. However, the landscape around us is continually changing and the HLC dataset should attempt to reflect that change to help secure itself as a useful tool for the future. One way to do this is to update the HLC dataset at regular intervals across the whole project area using a methodology similar to the original project. These intervals could be ten yearly and could even match such things as census years to enable comparison with the national dataset. The next census year is 2011; a full HLC update could therefore take place shortly before the following census in 2019/2020.

This whole-scale updating of the HLC dataset would help reflect physical change in the real world, and it would be an opportunity to adjust changes in interpretation and also use any new or updated sources that were not available in the original project. This work is essential if HLC is to achieve any longevity as a robust and reliable body of work.

It has already been identified in the Warwickshire HLC projects lifetime that the data sources used for the project at the beginning have become out of date by the end. The most obvious example of this is the OS mapping. When the project was started the OS LandLines digital vector GIS layer was the primary layer to inform the HLC on modern landscape features. Many of the features were only updated as recently as 2000/2001 hence the cut off date used for post Second World War features (date of origin from 1955 to 2001). However, since then, Warwickshire County Council have upgraded the GIS mapping to OS MasterMap with updates being applied every few months and effectively giving a much more recent date for the mapping (2008/2009).

To update the whole HLC dataset is no easy task and will require a systematic process or updating through the whole area taking into account any updates since the project was carried out. This should include updates to all the sources previously used in the project and any new ones. To make sure this update work follows a systematic and methodological pattern a short project design and methodology should be written to carry out and manage the work.

A problem may arise when it comes to finding funding for this work. It is slightly beyond the scope of the HER to fund outright this level of work (which could take many months to carry out) and consequently external funding would need to be sought.

It is therefore recommended that:

**The HLC dataset should be updated in its entirety every 10 years.**

**A fixed point in time archive HLC dataset should be produced matching this timescale.**

## Suggestions for the Warwickshire HLC

### Database Enhancement

Some changes could be made to the information that is recorded in the database element of the HLC records. Below are some suggestions, which will need to be achieved through collaboration with exeGesIS who provide the HBSMR software where the HLC records are held.

**A field could be added to the database to record user name and date in order to keep track of any updates made to an HLC record.**

This is to make sure that as a dynamic dataset, any changes to the HLC data would be properly recorded.

**A new tab could be added with fields for different periods as well as recording the HLC Broad Type, the HLC Sub-type and a Confidence level for each period. This would make it much easier to produce time slice maps and for analysis of the data. The following periods are suggested:**

- Medieval
- Post Medieval
- 1800s
- 1900s
- 1950s
- 2000

### PAI Issue

With the upgrade of Warwickshire County Council's base mapping system from OS LandLines to OS MasterMap we now have a Positional Accuracy Improvement (PAI) issue for all our data (including HER data). However, at the broad brush level of HLC this inaccuracy is not something of too much concern. Some work has been carried out into the use of automated software to shift polygons to correct for PAI problems. This work has been trialled by the Warwickshire HBA and it is hoped that it may also be able to be applied to HLC data. The exact time it will take to do this work and the accuracy of the results is not yet known.





Consequently it is suggested that:

**The possibility of shifting HLC data using automated software to allow for PAI changes should be investigated.**

## Further Information and Contact Details

The HLC forms part of the Warwickshire and Solihull HERs and as such the data, maps, reports and information is all available through consultation with the Archaeological Information and Advice Section of Warwickshire Museum, Warwickshire County Council.

Please contact the Historic Environment Record for further information:

-  01926 412734
-  01926 412964
-  [sitesandmonuments@warwickshire.gov.uk](mailto:sitesandmonuments@warwickshire.gov.uk)
- 
  - Historic Environment Record
  - Museum Field Services
  - The Butts
  - Warwick
  - CV34 4SS

Information about the HLC project including this report is also available online at:  
<http://www.warwickshire.gov.uk/hlc>



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## Appendix 1 : Warwickshire's Landscape History

### Changing Landscapes

Written by Dr Della Hooke and taken from the Warwickshire County Council Local studies Toolkit (<http://timetrail.warwickshire.gov.uk/toolkit.aspx>)

### The Prehistoric and Romano-British periods

Although the landscape of the county in prehistoric times is only known from scattered archaeological and air photograph evidence it seems that Arden was the least settled area in the prehistoric period, its woods and heathlands possibly already providing seasonal pasture for the more intensively developed crop-growing region to the south. Since cropmarks of burial or settlement sites are most easily detected on gravel soils, the Avon valley is also a conspicuous corridor of settlement at this time although find-spots (of flints, pottery or metalwork) show that settlement was much more widespread, especially across many parts of the Feldon. By late Iron Age times the area of the later county was divided between several tribal divisions - the Dobunni to the west and the Corieltauvi to the north-east. Hillforts throughout the region served as regional centres but the majority of settlements seem to have been farmsteads comprising round buildings set within ditched enclosures.

Some Iron Age settlement sites may have continued to be occupied after the Roman conquest of the later 40s AD (e.g. Wasperton); some were abandoned or re-emerged after a hiatus; some subsequently adopted Roman-style planning (more rectilinear buildings, as at Bidford Grange and Crewe Farm, Kenilworth) and more sophisticated building techniques (plastered walls and tiled roofs instead of timber, cob or thatch); and new farmsteads were established, but wealthy villas are not known to have been numerous here. Farming was mixed with considerable areas under arable, growing mainly cereals, and with evidence of paddocks for animals (mainly cattle and sheep); the area under arable probably expanded at this time. Military roads constructed through the region included the Fosse Way running across the county from NE to SW, the N-S Ryknield Street cutting across the west of the county, the Watling Street which later formed its NE boundary, a road running E from Alcester and another SE from Tiddington; all fostered accessibility and trade. New towns grew up close to military forts and at road stations, as at Alcester and Chesterton, with smaller centres that included Tiddington, Bidford, Princethorpe and Coleshill (a ritual centre). Industry was expanding, particularly iron working, tanning and glassmaking, while pottery production dominated in the Hartshill-Mancetter area, a centre for the manufacture of mortaria that were traded across midland and northern Britain. Kiln sites were chiefly located around the margins of Arden where wood for fuel and other raw materials were more readily available.

### The early medieval (Anglo-Saxon) period

The kingdom boundaries that are known for this period appear to have respected the late Iron Age divisions, for even in the early Anglo-Saxon period a frontier zone can be detected running across the central Avon valley which probably represented the ancient eastern boundary of the Dobunni and later formed the eastern boundary of the Anglo-Saxon kingdom of the Hwicce, separating that kingdom from Greater Mercia. Warwick may have developed at this time as a border market town. The

Hwiccan kingdom subsumed a number of folk regions that included the tribal area of the *Arosætna* in the Arrow valley while a region across the headwaters of the Alne was granted to a group known as the *Stoppingas*. Known pagan Anglo-Saxon burials are virtually confined to the southern and eastern parts of the county. Within the Hwiccan kingdom, Christian minsters were established at central places such as Wootton Wawen (for the *Stoppingas*), Stratford-upon-Avon, Tredington in the Stour valley and, probably, at Alcester, while Coventry was probably an early religious centre within Greater Mercia (the place-name *\*ecles* - as in Exhall - found both near Alcester and Coventry strongly suggests a pre-existing Roman-British Christian church in the vicinity).

In this period, estates were being carved out as new tenurial units with estate centres that often gave rise to villages bearing a topographical type or 'ton' place-name (replacing the older pattern of scattered farms). Several such units (townships) were usually grouped to form an ecclesiastical parish as churches were founded by manorial lords upon their estates within the old minster territories. Some parishes in the Feldon continued to be associated with others in Arden in medieval times, relics of past territorial arrangements and an earlier use of resources - a system of NW-SE trackways running between Arden and the Avon valley/Feldon region may have had its origin in a system of droveways that were used to move stock to seasonal pastures in Arden in prehistoric or early medieval times. In the south of the county, villages grew in size, surrounded by common fields in which farmers held scattered strips and had rights in the meadows and waste. Within Arden villages were smaller, with limited areas of open field, and dispersed settlements may have been more characteristic, many probably more reliant on pastoral farming. The incidence of the 'ley' term, signifying settlements set within wooded countryside or the actual woods themselves, is much higher in this region. Pre-Conquest charters reveal details of land use across the county - fisheries in the rivers, mills being established and a complex pattern of routeways, including ways used for the transport of salt from the inland salt-producing centre of Droitwich in Worcestershire (notably an E-W route through Wellesbourne).

Under the pressure of the Danish invasions new defended burhs were established, including that at Warwick fortified in 914, offering a measure of protection to the surrounding countryside as well as centres for marketing. Warwick was chosen as the centre of the new county demarcated perhaps in the 10<sup>th</sup> century. By the end of the period, the regional distinctions of the landscape within the new county were firmly established with the framework of settlement patterns, field systems and many routeways already in place. Some of the land use and landownership detail is captured in the Domesday Book that was compiled soon after the Norman Conquest.

## **The medieval and Tudor periods**

Under the Normans the differences between the north and south of the county were at first accentuated - in the south, both villages and their surrounding field systems continued to expand and in many parts of the Feldon meadow and waste was in short supply by the 13<sup>th</sup> century, with population levels practically as high as the medieval farming system could support. The common fields (usually from two to four per township) were divided into strips and ploughed using ox teams into ridges with intervening furrows to provide drainage. In the north, however, where the extent of open field was limited but might be divided into more numerous small patches, new

farmsteads were being established in the 12<sup>th</sup> and 13<sup>th</sup> centuries (often attracting colonists from the more heavily populated crop-growing regions to the south), largely by expansion onto the waste and into the woodland, thus maintaining a mainly dispersed pattern of settlement. These usually held their own land around them and many farmers became more prosperous than the feudal peasantry of the south, building moats around their houses largely as a status symbol, a practice largely confined in the south to manorial lords. The area of woodland and waste diminished as the new farms were established. Open fields, too, were gradually enclosed and divided between farmers - a landscape of banked and ditched hedgerows bordering relatively small fields was created across the region, a marked contrast to the mainly open undivided lands to the south.

New additions to the landscape under the Normans were the castles, many of them simple motte and bailey features, the most impressive of which survives at Brinklow. In time a few belonging to the greater lords were rebuilt in stone, as at Warwick and Kenilworth. These were associated with their own hunting parks. Although Arden may temporarily have been under Norman forest law this was not to last and many lesser manorial lords were also able to enclose parks in which they hunted game. To the north, Sutton Chase, part of Cannock Forest granted to the earls of Warwick, also extended into the county. Parks were most numerous in Arden where there was ample waste for emparkment leaving sufficient pasture for the domestic stock of the peasantry. Tracts of ancient woodland were not infrequently preserved within such parks, which might also include fleets of fishponds and rabbit warrens. Fishponds were to become a common feature of the region as other landowners followed suit.

The new Norman lords also rebuilt manorial churches in stone and the wealthiest were also founding abbeys upon their estates. Only a few of the early minsters had survived and at Coventry the Great Benedictine priory (?re-)founded in 1043 was the oldest monastic house in the county with another smaller priory founded in 1140 at Alcester. However, other abbeys were established, most in the 12<sup>th</sup> century, including those of the Cistercians at Combe, Merevale and Stoneleigh, many of whom were also involved in the clearance of north Warwickshire's woodland.

The medieval period was brought to a slow and lingering end when the Black Death decimated rural and urban populations in the mid-14<sup>th</sup> century. Only a few villages entirely lost their inhabitants but often those left could no longer provide the enormous amount of labour needed to maintain the open field system. In Arden, however, where feudal restraints were fewer, the surviving peasantry were often able to purchase land made newly available. Medieval society and economy were deeply disrupted, leaving the way open for the changes that were to follow.

By Tudor times increasing profits were to be made from animal husbandry, for which the Arden farms were well suited. Here landscape change remained gradual - enclosure of remaining open-field patches generally proceeded piecemeal through agreements between landholders. In the south of the county, in the Feldon, however, villages were being abandoned, sometimes voluntarily as their remaining inhabitants sought better lives in the growing market towns; sometimes the villagers were ousted by manorial lords anxious to improve their revenues. Whole townships might lose their village centres as these were replaced by one estate farm maintaining herds of cattle or giant flocks of sheep: the landscape became a mosaic of empty lands divided into huge, hedged stock enclosures (with few remaining footpaths) intermixed

with other areas in which the villages had recovered, their inhabitants maintaining the old open field system (although the fields were seldom as extensive as in the early 14<sup>th</sup> century), each set at the nucleus of a 'spider's web' of approach roads. Today many deserted settlement sites are revealed by the earthworks of former roads and house platforms with perhaps, too, the moated site of a former manor house. Where pastures have not been subsequently ploughed, ridge and furrow marks the extent of the former arable fields.

The dissolution of the monasteries under Henry VIII added much land to an already fluid land market in Tudor times and enabled many entrepreneurial merchant families to join the old landed dynasties. New country houses were built to express their owner's status like Compton Wynyates, Arbury Hall and Charlecote (both refurbished later) or older ones substantially rebuilt (such as Coughton Court), a few, like Combe, incorporating former monastic buildings. Wealth filtered down to the yeoman farmers of Arden where many new timber-framed farmhouses (some of their owners claiming quasi-manorial status) witness the continuing availability of timber (examples in the Arrow valley include Gorcott Hall and Old Castle in Studley, Church Farm, Greenhill and Netherstead in Morton Bagot). In Arden, the settlement remained dispersed, made up of farms and hamlets linked by a network of irregular roads and trackways. Groups of landless labourers and village craftsmen tended to settle around the edge of the common waste, their settlements often bearing names ending in 'Green' or 'End'.

## **The post-medieval period**

By the middle of the 18<sup>th</sup> century a new wave of 'agricultural improvement' was being advocated as landowners sought ways to further maximise productivity and profit. Most of the midland countryside lay in large estates and their owners were able to invest in large-scale enclosure by private or parliamentary act - the open fields were eradicated as new fields (and often, too, new roads) were laid out, farmed from new outlying farms built in a distinctive style. The large Tudor stock enclosures were also divided up into smaller fields. Enclosure across the south and east of the county and in the Tame-Blythe corridor created a more uniform landscape of geometric-shaped fields separated by new hedges, often single-specie hawthorn hedges. Country houses were often refurbished in the latest style, like Arbury or Packington Halls, or rebuilt as at Compton Verney, some of them set amidst grounds landscaped in the new 'natural' style of 'Capability' Brown. Such landscape parks around country houses spread the idea of 'parkland' from Arden to the rest of the county. In the south of the county stone also began to be used more for village housing - dark ironstones in the far south and pale-coloured lias from local bands of rock in the Feldon and Avon valley.

However, not all villages relied on farming. Rural industry provided employment in some areas - the woollen industry had flourished in and around Coventry in the 14<sup>th</sup> century, giving way in the Tudor period to the production of knitted caps and later to the manufacture of hats and ribbons. The textile industry of northern Oxfordshire also spilt over the boundary into southern parishes like Brailes. Most medieval towns with access to hides supported a leather industry and Stratford-upon-Avon was a centre for glove making in the 16<sup>th</sup> and 17<sup>th</sup> centuries. Cottagers augmented their low incomes by needle making in the Arrow valley. Coal was being mined on the East Warwickshire Coalfield by the 13<sup>th</sup> century but it was the introduction of new industrial

techniques developed in the Industrial Revolution and improving communications that concentrated industry in more localised areas after the mid-18<sup>th</sup> century (like Birmingham, Coventry and the Black Country). New turnpike roads had improved travel and the Avon had been deepened for navigation in the mid-17<sup>th</sup> century (destroying many local fords) but it was the Coventry Canal, opened in 1771, that led to a concentration of industry in the north-east of the county - industries that often involved the movement of heavy goods such as coal mining and quarrying, lime and cement making (also at Rugby on the Oxford Canal) or tile, brick and stoneware production. Many of these, like the huge quarries near Rugby or at Stockton have left lasting marks on the landscape although mounds of colliery waste have often been obliterated and 'restored'. Today's surviving deep mines (Daw Mill opened in 1965) no longer produce surface waste.

## **The 19th and 20th centuries**

Some open fields persisted into the mid-19<sup>th</sup> century (as at Darlingscott and Tredington in the Stour valley) but generally it was the remaining waste that was to be taken in the last stages of the enclosure movement - including most of the remaining Arden commons. The poor lost their rights to free grazing and increasingly left the countryside: the remains of deserted settlement sites can sometimes be identified along roads and around patches of former waste (as around the former Morton Common in Morton Bagot). Many were attracted to the growing towns, for home industry moved almost entirely into factories - although in the Arrow valley, for instance, water corn mills were at first converted for the finishing processes of the needle industry it was the large mechanised mills established at Alcester and Studley that were to commandeer the trade. Although the introduction of steam-powered machinery met violent protest from the Coventry ribbon makers, large and 'cottage' factories here and at Nuneaton continued to prosper until the end of the 19<sup>th</sup> century, also producing other silk items, woollens and threads. The two World Wars gave new impetus to the car and cycle firm of Coventry.

Although canals were still being built in the earlier part of the 19<sup>th</sup> century they soon met competition from the railways. With industry and improved communications came a spate of new building - settlements spread over the adjacent countryside at an unprecedented rate, swallowing farmlands and subsequently giving rise to areas of 'urban fringe' dominated by 'overspill' housing, sports facilities and straggling suburbs. By the 1950s motorways were slicing across the countryside encouraging the development of warehouses etc, close to major junctions. Despite the introduction of stricter planning laws and 'Green Belt' policies much former rural countryside has been lost. With the pressures for more intensive farming and greater production that began after World War II the countryside has suffered hedge removal on a huge scale, the loss of old pastures and meadows, the introduction of new crops and colours (like the harsh yellow of rape), and a general loss of regional distinctiveness. With moves now towards a fully ratified European Landscape Convention and greater conservation it is imperative that features of local and regional historical significance should be fully recorded and, where possible, preserved.



## Appendix 2: Warwickshire HLC Project Design

# Warwickshire County Council Museum Field Services



## Historic Landscape Characterisation

### Project Design v3.2

January 2006

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## Part 1      **Summary and Introduction**

This project design describes a proposed programme of Historic Landscape Characterisation (HLC) for Warwickshire, to be undertaken by Warwickshire Museum Field Services.

English Heritage have supported a national programme of Historic Landscape Characterisation projects over the past decade. For the most part they have been undertaken by County Council based Historic Environment Services, covering individual Counties or similar sized units. They aim to achieve an archaeologist's understanding of the historic and cultural origins and development of the present day landscape through a desk-based programme of digital mapping, description and analysis, by the identification of the physical remains visible within the landscape that demonstrate the processes by which it has reached its present form.

Like the other members of the family of landscape characterisation studies to which it belongs, HLC provides a broad-brush overview of complex aspects of the historic environment in order to provide new and wide-ranging information for conservation, management and development decisions. The objective of HLC is to promote better management and understanding of the historic landscape resource, and of the accommodation of continued change within it, and to establish an integrated approach to its sustainable management in partnership with other organisations.

The basis of HLC is a Geographic Information System (GIS). The information within the GIS is structured by the identification and classification of archaeological historical and other environmental attributes of land parcels. Unlike other forms of landscape assessment, HLC permits the creation of a plurality of classifications of Historic landscape types. The distribution of landscape types can be mapped using GIS, with each type being supported by written descriptions of the landscape types and the particular process of landscape formation that they represent. This approach to HLC provides a permanent and renewable database, which may be used to inform a wide range of planning, conservation and management initiatives and strategies.

In the initial, data collection stage of HLC, GIS polygons will be defined, based on groups of modern land parcels exhibiting similar historic origins or processes. These may prove broadly comparable to the Land Cover Parcels used in the ongoing WCC landscape assessments such as that recently undertaken for the environs of Stratford; these parcels will reflect common historic characteristics. Each polygon will be assigned to one of a set of pre-determined high-level HLC types (e.g. woodland, meadow, former open field, parkland). An Access database, linked to the GIS, will be used to record a range of attributes reflecting the historic landscape features specific to each polygon (such as aspects of field pattern and boundary form, woodland cover, evidence for former land-use)

In the subsequent, analytical phase of the programme, the attributes will be interrogated to provide further Historic Landscape Types and other classifications, based on recognisable and extant historic character.

## **Part 2      Background**

### **2.1      Location and Description of the Project Area**

The project area (see map) will consist of the following four components:

#### **The present day administrative county of Warwickshire**

The total area to be included in the study is 186840 ha. There are five District Councils within this area: North Warwickshire, Nuneaton and Bedworth, Rugby, Warwick and Stratford-upon-Avon. Warwickshire Museum Field Services provides archaeological planning advice to all five Councils. The small part of the County (10,282 hectares) lying within the Cotswolds AONB was the subject of an earlier HLC programme (Hoyle 1999); the current project will ensure that its results are seamlessly amalgamated into the Warwickshire HLC.

#### **The administrative area of the Metropolitan Borough of Solihull**

This was historically part of Warwickshire until the 1974 local government re-organisation. Archaeological planning advice is provided to Solihull MBC by Warwickshire Museum Services, who also maintain the Solihull Sites and Monuments Record. The area along the western boundary of the MBC area is prominently urban (Castle Bromwich, Kingshurst, Chelmsley Wood, Olton, Elmdon and Shirley, totalling some 4140 hectares), but much of this has been C20th growth and characterisation should still be possible. The area to be characterised in the same detail as present day Warwickshire is 17,780 hectares; for the remaining (built up) area a more broad-brush approach will be adopted to provide a frame for any future work

#### **The administrative area of Coventry City Council**

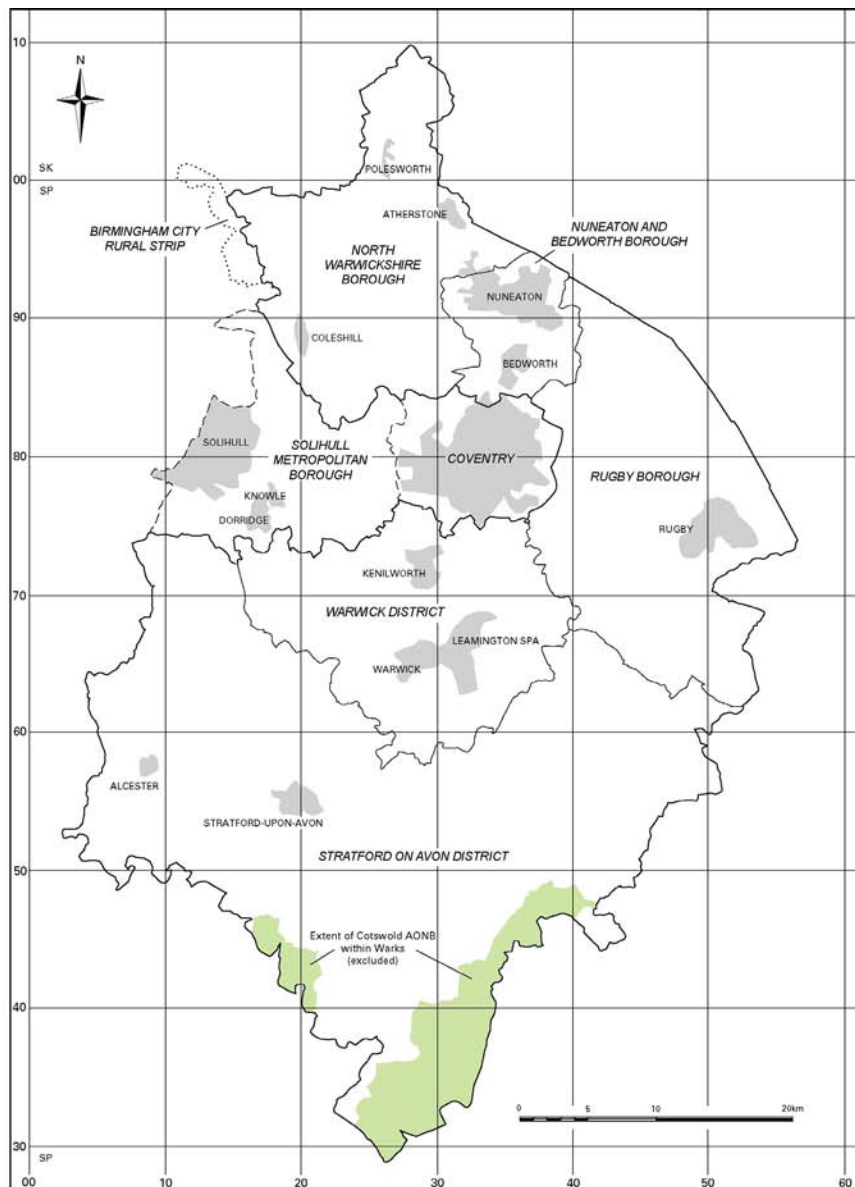
The Council are currently developing a Historic Environment Record which incorporates certain aspects of HLC. Following discussion with the Conservation and Archaeology Team at Coventry City Council it was agreed that Coventry should, if possible, be included within this HLC programme. However, in order not to duplicate work already being undertaken, it was decided only to provide very broad-brush detail for the historic core, since the Coventry team will be developing an extensive series of both data and interpretative maps for the city, using the very extensive data which survives; an attempt to undertake detailed characterisation of the urban core as part of this HLC project would be inappropriate. More detailed work will be undertaken in the rural fringe of Coventry where the City Council are not themselves undertaking characterisation work. Careful liaison with the Coventry Conservation and Archaeology Team will ensure that methodologies are complimentary and compatible. Area 9834 hectares.

#### **Part of the administrative area of Birmingham City Council**

The rural strip within Birmingham to the east of Sutton Coldfield, roughly between Curdworth and Watford gap; this too was part of Warwickshire until 1974. This is an area of approx 1500 ha.

Size of County (hectares):

N.Warks	28300
Nuneaton	7872
Rugby	35250
Warwick	28200
Stratford	97500
(total Warks)	197122
Solihull	17780
(Total Warks + Solihull)	214902
B'ham rural fringe	1500
Coventry	9834
Total	226236
(minus Cotswold AONB)	-10282
<b>Total study area</b>	<b>215954</b>



Map showing project area.

## 2.2 Landscape character of the project area.

Historic Warwickshire contains a variety of landscape types. Landscape assessment undertaken in 1990-93 (WCC 1993) identified seven main character areas, of which four were largely within Warwickshire and the remainder largely within adjoining counties.

The four distinctively 'Warwickshire' landscapes are:

<b>Landscape</b>	<b>Description</b>
<b>Arden</b>	The Arden covers much of the north-western part of the study area, and consists of a region of former wood pasture and heath. The settlement pattern is typically dispersed, with area of ancient woodlands and mature hedgerow oaks
<b>Dunsmore Plateau</b>	A glacial plateau in the eastern central part of the area around Rugby with sandy soils, much of it heathland until comparatively late
<b>Avon valley</b>	River terraces and alluvium along the river corridor, containing nucleated villages and market towns; prosperous farms, market gardening, orchards and meadow pasture
<b>Feldon</b>	Claylands in the southern part of the county and extending into Northants, with a high level of relatively early enclosure, large geometric fields and nucleated settlements

The remaining landscape types are:

<b>Landscape</b>	<b>Description</b>
<b>Mease Lowlands</b>	The north eastern edge of the study area is an area of large estates and small nucleated villages, extending into Leicestershire
<b>High Cross Plateau</b>	Open clay wolds with small nucleated villages, extending along the Leicestershire border to the south of the Mease Lowlands
<b>Cotswolds</b>	Limestone uplands. The Cotswolds AONB was the subject of an earlier HLC study (Hoyle 1999) and is excluded from the present project

## 2.3 Previous landscape and characterisation work

The Warwickshire chapter of the Land Utilisation Survey of Britain was published in 1946, drawing largely upon studies undertaken in the early 1930s (McPherson 1946). This survey makes no reference to historic landscape; it is of interest however in containing much information about mid-C20th land use, although its usefulness in the present context is limited by the very large scale of the maps.

Other early attempts to describe the historic character of the landscape have been at an extremely low resolution; thus descriptions such as the brief summary by Kinvig (1971) is no more than a geographical pen portrait. The work of David Pannett and others (unpublished, but see Harrison, Mead and Pannett 1965) in mapping the open fields is clearly relevant to landscape character, although the scale of the mapping, the restricted range of sources used, and its non-digital format, means that its use in the present programme may be problematic.

A Warwickshire Landscapes Project was established in 1987 as a partnership between the County Council and the Countryside Commission. The main purpose of the project was to develop a methodology for landscape assessment suited to lowland England as well as to consider the distinctive characteristics of the Warwickshire landscapes. The principle output was the three volume *Warwickshire Landscape Guidelines* (WCC 1993; hereinafter WLG), consisting of a landscape assessment for each of the main areas and a series of general guidelines for management and development purposes. The landscape assessments identified local landscape types within each of the primary character areas; these were mapped in non-digital format.

Amongst the sources used for the Warwickshire Landscapes Project was a series of 1:50,000 maps drawn up by Dr Della Hooke showing a number of basic character areas (e.g.: woodland, orchards, C18th enclosures, commons, deer parks). Unfortunately these maps are not cross-referenced to the source material from which they were derived, and their use in the present programme will therefore be limited. Nevertheless it is intended to consult Dr Hooke, who it is intended should be part of the Project Forum.

A broad framework for landscape characterisation at a national scale was provided by the publication in 1996 by the former Countryside Commission and English Nature, with support from English Heritage, of the Joint Character Map of England. This identified 159 landscape character areas and was accompanied (from 1998) by descriptions of each area, together with the influences which had shaped their character and some of the main pressures for change. This work provides a top tier of landscape character assessment, but the necessarily broad-brush treatment does not address individual landscape types.

More recent landscape assessment work includes studies undertaken by the Planning, Transport and Economic Strategy Department of WCC in Dordon (North Warwickshire) and around the urban fringe of Stratford upon Avon (WCC 2003): similar work is presently in progress around Rugby's urban fringe, whilst further work is envisaged around Coventry.

The Stratford study was undertaken in conjunction with the Living Landscapes Project, a partnership between local authorities, academic institutions and national government agencies with a view to developing an integrated GIS-based framework for decisions in respect of planning and land-management in accordance with national/regional policy objectives. The study identified nine Landscape Character

Types based on a number of smaller Landscape Description Units, which in turn were aggregations of smaller Land Cover Parcels. The study was also the pilot for the development of a GIS-based LDU map for Warwickshire. Digitisation of the LDUs is nearing completion, although the accompanying descriptions have still to be written.

Other relevant topic-based studies include Dr Sarah Wager's work on Warwickshire woodlands (Wager 1998) and the English Heritage funded study of Midland open fields (Hall 2001), whilst the Habitat Biodiversity Audit has built up an important and detailed database of the County's ecological diversity which will also reflect the long term influence of human beings on local landscapes. Comparison of HLC patterns and the results of these previous studies will be a particular consideration within Stages 3 & 4 of the HLC project.

## **2.4 Rationale for the HLC programme**

### **2.4.1 National context**

The HLC project will form part of a national programme sponsored and encouraged by English Heritage. The need for the programme is best understood as a response to two gaps in understanding: one, of the historic environment resource at a landscape level, with a consequent lack of a robust framework for taking decisions in respect of managing change, and the second as a gap in landscape assessment where the historic and archaeological dimension landscape (time depth) is concerned. HLC is therefore designed to assist both archaeologist (and other HE managers) and landscape architects (and other countryside managers).

The development of the HLC methodology over the past decade has both reflected and informed changes in emphasis in the way archaeologists describe and manage the historic environment (Aldred & Fairclough 2003). These changes include:

- a concern with the whole of the humanly modified landscape rather than solely the demonstrably archaeological 'sites' within it
- a change in analytical scale from the small-scale site/monument to the wider landscape. This is in fact a long-term archaeological and historic concern, going back at least to the studies by WG Hoskins; however, much of the earlier emphasis tended to concentrate on particular topographies such as upland areas with good earthwork and field monument survival. More recent studies have helped focus understanding of aspects of the landscape at a much wider scale, as exemplified by the EH Settlement Atlas (Roberts and Wrathmell 2000 &c)
- an increased concern with integrated and sustainable policy development and decision-making. In particular the establishment of landscape assessment methodologies has stimulated the development of methodologies for integrating archaeologically-based approaches; thus the processes of landscape assessment (Countryside Agency/ Scottish Natural Heritage 2002) have required that a separate type of characterisation undertaken from the landscape archaeologists' perspective be developed. HLC, with its specialist analysis by archaeologists of the time depth of landscape, provides finer detail and greater understanding than Landscape Character Assessment (LCA) on its own. Ideally

HLC should inform LCA , but even where this is not possible, LCA descriptions and analyses can be relatively easily modified in the light of subsequent HLC

- a developing political context for understanding landscape, as shown, for example, by the European Landscape Convention of 2000 and in the Government's 2001 statement *A Force for our Future*.(3.19: 'The Government commends character assessment to local authorities both as a useful tool in itself and as a way of encouraging greater involvement by local communities in conservation issues').
- a move from concern with 'relict' landscapes to concern with the present-day landscape which has been shaped by change and modification over centuries and millennia and by a variety of processes
- a realisation that the concept of 'landscape' is based on subjective considerations (intellectual, emotional and aesthetic, themselves each socially- as well as individually-developed) as well as objective criteria. Landscape is something which we perceive, even more than it is something we create.
- a more detailed articulation of the realisation that understanding landscape depends on understanding the dynamics of its creation and the underlying cultural processes and political, social, economic and cultural influences.
- the realisation that the best means of protecting historic landscape is not designation (although on occasion this may have a role to play) but sound management underpinned by accessible data which could be analysed and understood. This realisation was initially at odds with the invitation contained within the 1991 Government White Paper 'This Common Inheritance' to establish a Register of Historic Landscapes, which led to the EH conclusion that such a register would only be partial and selective and thus an inappropriate means of managing historic landscape character (Fairclough *et al* 1999). Achieving the necessary understanding of the data is the key aim of HLC.
- a move, in the more recent HLC projects, away from classification-led systems (in which land was allocated to pre-defined types) towards an attribute based-system in which interpretations and observations are attached not to the pre-ordained types but to individual mapped polygons which can be subsequently analysed, thus enabling a multiplicity of classifications and interpretations as well as a transparency of analysis
- The acceptance that, despite the sophistication of GIS, HLC is a relatively generalised characterisation of the landscape's historic attributes which is intended to serve as a means of resource management, and which provides an approach which is consistent, transparent, repeatable and comprehensive (no gaps). This approach leaves open the possibility of more detailed assessment being undertaken later as necessary. It can thus be used for spatial planning, development control, landscape strategies and resource management (e.g. Clarke, J., Darlington, J. & Fairclough, G. 2004 *Using Historic Landscape Characterisation*. English Heritage & Lancashire County Council.)
- Acknowledgement of the interpretative, subjective character of landscape; HLC is thus not another environmental database

## 2.4.2 Local context

The reasons for this HLC project are several:

- It will articulate existing Structure Plan Policy and Local Plan Policy, as well as the emerging framework of Regional Spatial Strategy and Local Development Plans
- It will, when integrated with HLC undertaken in adjacent areas, provide a context for developing Regional agenda
- It will provide additional baseline information for landscape strategies and landscape assessments
- It will provide baseline information for local environmental strategies (including Conservation Area Appraisals, Parish Plans and Village Design Statements) and LA21 agenda
- It will provide a context for advice given to DEFRA in terms of targeting priorities for joint character areas, and for advice given in respect of Environmental Stewardship
- It will provide assessment of landscape sensitivity for development of the Woodland Opportunities Map, a component of the Regional Forestry Framework
- It will provide a context for management of the County Council's own rural estates
- It will provide a fundamental, holistic and meaningful landscape layer against which to interrogate other layers within the County Historic Environment Record
- It will provide a dataset which will provide additional context for other County-wide GIS datasets, such as biological and geological records, and the Habitat Biodiversity Audit
- It will provide a context for subsequent development of an Extensive Urban Survey for Warwickshire and Solihull
- It will provide a context for possible future research, for example on characterisation of vernacular buildings.

## Part 3      Aims and Objectives

### 3.1      Overall Aim

*To characterise, and digitally map, the historic dimension of the existing landscape in Warwickshire, in order to inform its management, conservation and understanding at local, County, regional and national levels. The HLC will be created using existing information, and will become a component of the Historic Environment Records for Warwickshire and Solihull. It will consist of GIS mapping linked to a database of attributes of individual landscape units. It will also result in a technical report explaining the HLC methodology, providing guidance on the use of the database, interpreting the project's findings at county scale and providing management guidelines for the historic landscape.*

### 3.2      Project Objectives

#### 3.2.1 Specific Objectives

Within the project the following specific objectives have been identified:

#### Specific Objectives

- to define GIS polygons with similar historic character and collect attribute data
- to use attributes of each polygon to define and describe HLC types
- to collect sources and defined data sets to support HLC, show transparency and facilitate future update
- to analyse and produce preliminary synthesis to inform management, planning, outreach and research
- to assess potential for further HLC development
- to disseminate results of the project
- to produce an archive which supports the project
- to produce a dynamic dataset that may be enhanced and updated in the light of future research
- to identify mechanisms for future review/ revision of the HLC

### 3.2.2 Broad Objectives

The following broad objectives have also been recognized:

#### **Broad Objectives**

- to improve and foster understanding of historic landscape character within Warwickshire
- to provide a landscape context for archaeological sites within the Warwickshire Historic Environment Record
- To provide a framework for subsequent characterisation projects, in particular Extensive Urban Survey
- to encourage HLC as a resource for sustainable management and facilitation of appropriate change
- to provide baseline data for monitoring subsequent change to the historic environment
- To support WCC's role in strategic planning in respect of historic environment issues
- To underpin historic environment advice given to District Councils within Warwickshire and to Solihull Metropolitan Borough Council
- to widen understanding, within and beyond WCC and the planning authorities advised, of what historic environment consists of
- to assist development of partnership with other agencies
- to foster links with other disciplines/datasets (e.g. Warwickshire Biological Records centre, Warwickshire Habitat Biodiversity Audit)
- to encourage integrated working with other environment/conservation agencies including DEFRA (for example within the areas of agri-environment and rural diversification), and the Forestry Commission (development and implementation of Regional Forestry Framework)
- to enhance awareness of local distinctiveness
- to ensure a level of compatibility with HLC data in adjacent counties in preparation for the development of regional HLC models

## **Part 4      Method Statement:**

The project methodology will be based on that developed during development of the national HLC programme, particularly those projects involving predominantly rural landscapes. Typically, this involves four stages:

**Stage 1: Familiarisation, refinement of methodology, sample work (pilot project)**

**Stage 2: Data collection and assignment of character types**

**Stage 3: Review, analysis and interpretation**

**Stage 4: Preparation of a report, archive and dissemination of results**

### **4.1      Familiarisation, refinement of methodology, sample work (Stage 1)**

This Stage is split into two shorter sub-stages:

#### **1a: Short period of familiarisation with sources and assessment of their value.**

The project officer will be acquainted with the project area, and project design. Meetings will be arranged with key partners; WCC departments (primarily Planning, Transport and Economic Strategy) and Local Planning Departments.

A digital Project Summary, as required by English Heritage Historic Environment Commissions, will be produced and submitted.

Availability of and access to data sources will be confirmed beforehand. The project officer will undertake a rapid critical review of existing assessments (Warwickshire Landscape Guidelines, Cotswold AoNB HLC), and familiarise him/herself with the national review of methodology (Aldred & Fairclough 2003).

Any necessary GIS training will be undertaken. (The person specification for this post assumes previous experience of GIS. However, some software-specific training may be required). After examination of the potential data and available digital datasets, a detailed data collection methodology using a MapInfo-based system with related Access database will be developed.

It is proposed that the Exegesis HBSMR HLC module is used to record data. This will make it available for consultation by archaeologists, planners, researchers and the general public from an early stage of the project. Advantages to using the module are:

- It is a proven system currently used by a number of HLC projects (Wolverhampton, Norfolk, South Yorkshire). Where limitations have been encountered, such as limited functionality when it comes to 'previous' landscape character fields, reasonable solutions have been found.
- The HLC module will benefit from future improvements to the HBSMR system made by ExeGesis.

- The project will benefit from the experience and knowledge that has built up in the locations already using the HBSMR HLC module

[Note: Were the project to use an “in-house” module, developed by Warwickshire County Council the project cost and timescale would increase considerably. Discussions with WCC Contract and Management Services (CAMS) has established that this work would need to be carried out by an external agent because the County does not have sufficient capability to undertake the work. Additional impacts on the project would include:

- Less integration between the HLC data and the SMR data
- Potentially less support from colleagues in other counties undertaking HLC work using the HBSMR module
- An “in-house” system is unlikely to be supported by our technical services section in the short term; and is unlikely to benefit from future technological development]

Also within this initial sub-stage, a list of high level HLC types will be defined for assessment and development within a targeted study (Stage 1b). This will involve appraisal of other HLC projects, particularly those of neighbouring counties/areas (e.g. Cotswold AONB, Staffordshire). A provisional list of high level HLC types is included in Appendix A.

During stages 1 and 2 the project officer will make periodic visits into the study area in order to experience at first hand the landscapes with which they will be dealing. The opportunity will also be taken to take photographs of key areas and typical landscapes, for incorporation within the report.

### **Stage 1b: Testing of the methodology against a representative sample of landscape areas (see below).**

The sample will consist of two areas: one to the south of Warwick, which takes in parts of the Feldon, Avon Valley and Arden character areas, and the second northwest of Rugby, taking in parts of the Dunsmore and High cross plateaux. This selection will test the methodology against most of the main character areas within the project area.

Following any refinements of the methodology arising from data collection in the sample areas, the method statement will be developed into a desk manual which will be used throughout stage 2 and as a basis for the final reporting in Stage 3. A revised project design will be produced if necessary, along with GANTT chart for the remainder of the project.

Outputs during Stages 2 and 3 (e.g. seminars and outreach, web-based information, guidance for agri-environment schemes, Supplementary Planning Guidance, integration with HER and other data sets) and a framework for their delivery will be defined during Stage 1.

This stage will also be used to test and where necessary develop the proposed software (ExeGesis SDM, HBSMR database (HLC Module), and integrated MapInfo link). The identified issues (i.e.: lack of functionality) relating to the HBSMR system have been investigated and we are confident that the benefits outweigh any shortcomings.

A Consultation Group/Project Forum will be established (see below for suggested membership)

It is anticipated that Stage 1 will take around 4-5 months.

#### 4.2 Characterisation, mapping & digitisation (Stage 2)

GIS polygons will be defined and characterised using the methodology refined in stage 1. Attributes which describe present, previous and (where known or interpreted) earlier historic landscape character will be ascribed to each polygon. This will use a number of sources.

For present day landscape current and recent digital OS maps, 1:25000 paper maps, geo-referenced GIS-based vertical aerial photographs will be used. It may be possible to make use of supporting evidence such as historic maps & documentary evidence (e.g. County Maps). However, it is considered that use of tithe, enclosure & estate plans would be too large a task within the HLC project, and that these are perhaps best regarded as a resource for future use within a complete HLC framework. However it may be possible to use historic mapping to extrapolate interpretations from detailed characterisation of key areas, and record the assumptions used to extrapolate. SMR data will be largely for use in the analysis stage, but Ridge and Furrow data from the Open Field Survey probably could be used at this stage.

##### Provisional list of sources

Primary	OS 1st Edn 1919-1930 1955 Current 1:2500 landline 1:10,000 2000 Digital APs
Subsidiary	C18 County Maps (Beighton, &c) Countryside Agency Regional Character maps Warwickshire Landscape Guidelines Geology Open Fields data (AP-derived R&F plots) Habitat Biodiversity Audit Phase 1 data SMR 1947 aerial photographs

Defining HLC polygons: It would be impractical and unnecessary to collect data at the level of individual land parcels. Defining polygons will involve grouping together

individual units from OS digital mapping on the basis of a common current land use, previous land use and morphology, the aim being to define polygons sufficiently small and distinctive to permit the attachment of attributes that can later be used to create characterisation. Each polygon will therefore contain a particular combination of attributes which can be assigned to a single HLC type. HLC polygons will be digitised in MapInfo direct to screen at 1:10,000 scale.

Annotating HLC types and attributes:

Attributes will be recorded for each polygon, e.g. broad landscape type (See Appendix A for a list of Broad Types), possible date, confidence level.

Data will be attributed in three main layers:

1. Broad high-level groups (of which there will be a limited number, possibly a dozen or so, e.g. Urban, ancient woodland, enclosed)
2. Present day HLC. This is the central feature of the HLC process, allowing sub-division of higher-level attributes according to source evidence and morphology (e.g.: regularity, field size, patterning, shape of internal and external boundaries &c)
3. Previous HLC (where recognisable and inferable from historic mapped evidence or morphology) – diagnostic characteristics will include dog-leg boundaries, R&F, old quarries & earthworks, fieldnames.

It is anticipated that stage 2 will take in the order of 18 months

### **4.3 Review, analysis and interpretation (Stage 3)**

This stage will connect with other landscape assessment projects and with the planning/management agendas. It will review the results of stage 2, using the inherent attributes of each polygon recorded within the database built up in stage 2 to create a classification of HLC types. There are likely to be several layers of classification from broad and simple to complex and narrow. Other analyses will be possible: differing vulnerability of various HLC types to loss, rates of change, comparison with earlier landscape character models including WLG; it is likely that other candidates will suggest themselves during the project.

The HLC type data will be compared with SMR data and with secondary sources in order to identify patterns and trends within the data, particularly insofar as they relate to time depth and process of landscape change. Comparison with HLC results from adjacent studies such as the Cotswold AoNB will be undertaken in order to identify unconformities.

Stage 3 will also involve consideration of the data in terms of its input to management, with a view to informing management strategies. This is likely to take several forms: identification of areas and HLC types which are particularly rare and/or vulnerable, prescriptions for estate management, and for FEPs, assistance with identification of targets for agri-environment schemes, and for the identification of issues to be addressed in the planning process.

It is inevitable that this programme will identify further avenues for research. The value of HLC is acknowledged in the emerging West Midlands Archaeological Research Framework, and the development of the research framework will be another output from this programme. Peer Group review via the project forum will be important at this point.

#### **4.4 Preparation of a report, archive and dissemination of results (Stage 4)**

It is obviously crucial that the results of the HLC be widely and appropriately disseminated. This is likely to comprise several elements. The end products will include a report on the project, the database and GIS (HBSMR module), and a data archive

##### **4.4.1 The Report**

The report will be available in hard copy (and CD) and record the methodology and the assumptions made. There will be a summary of the data including HLC type descriptions. This will lead to a provisional analysis of the landscape in the study area based on the data gathered, illustrating the changes in understanding and perception which the project has led to. It will identify avenues for further work, and put forward preliminary guidance for management of the historic landscape. It will be illustrated by a series of appropriate maps derived from the GIS database, as well as a large format map of the entire study area (this larger map, annotated with suitable non-technical text providing a very brief overview of the programme, is likely to have a number of applications including acting as an advertisement for the project, and it is intended to produce this as a freestanding poster/leaflet for wider distribution). The report will include the following sections.

- Introduction, background to the project, aims and objectives
- Methodology & non technical summary of results
- Characterisation (including written description of morphological and interpretative HLC types)
- Discussion of results, including summary of assessment stage of project
- Recommendations for further work, including potential for further analysis and research
- Management guidelines for dealing with the historic landscape, identifying archaeological management guidelines to assist in the preparation of future landscape management strategies.

Three bound hard copies of this report, as well as a digital master, will be provided to English Heritage. Further copies will be provided for partner local authorities and other agencies, the final distribution to be determined by the project team.

Dissemination via the WCC website will also be explored. Whilst full access to the HLC dataset would be impractical within the present project, consideration will be given to provision of a series of GIS derived maps within the Museum's web pages.

#### 4.4.2 The database and GIS

The HLC data will be made accessible via the SMR/HER. Appropriate guidance for maintenance/ updating will be provided in a users' manual. It will be possible to provide this GIS-based data to other agencies such as planning departments.

Information from the project will become available via the HBSMR HLC module from an early stage. This is a significant advantage of using the module rather than developing an HLC database independently.

#### 4.4.3 The Project Archive

The Project Archive will include:

- copies of the project design
- revised method statements
- data tables with explanations
- copies of correspondence
- text and mapped information produced and/ or copied as part of the project
- copies of all reports produced as part of the project.

The archive will be quantified and ordered in line with English Heritage guidelines and then held within Warwickshire SMR. Archive material for the parts of the project covering areas outside Warwickshire, i.e., parts of Birmingham, Solihull and Coventry will remain with the Warwickshire SMR. It is not intended to copy this material and thus duplicate the archive storage.

#### 4.4.4 Wider Dissemination of Results

The use of the HLC to engage local communities with their surroundings is another important output from the project, and will require the results of the project to be disseminated widely. The map-based character of HLC lends itself to engagement with the imagination, and a large format map encompassing the entire project area and annotated with an overview of the project's results in terms of understanding the landscape will be a ready means of showcasing the project far beyond the Project Forum stakeholder group. There is scope for a popular publication, and for dissemination via the web (perhaps by integration with the existing online SMR at [www.warwickshire.gov.uk/timetrail](http://www.warwickshire.gov.uk/timetrail) ). A series of PowerPoint presentations will be developed for dissemination to local environmental theme groups and other external organisations.

The results of HLC will also be of academic interest, and consideration will be given in stage 4 to scoping an academic publication, perhaps to be undertaken as a separate project.

During Stages 3 & 4 a strategy will be developed in conjunction with the various project partners for periodic updating of the HLC. Such updating (perhaps at intervals of around 10 years) will refresh the data within the HLC, as well as providing an empirical means of monitoring the effects of change upon the historic landscape.

7 months is allowed for Stages 3 & 4.

## **Part 5      Project Management.**

### **5.1      Personnel**

The project programme is based on a proposed duration of 30 months. This programme will be reviewed at stages during the project and may change. The programme will be revised at the end of stage 1 when completion of the pilot phase will provide a more accurate indication of likely duration of individual tasks, this is especially relevant to the digitisation process.

Day to day management will be the responsibility of a dedicated project manager (to be recruited) who will be responsible to the County Archaeologist, Jonathan Parkhouse. The County Archaeologist will be responsible for management of the Project Team and the project budget (as County Council Cost Centre manager). Regular meetings will be held of a **Project Team**:

The HLC officer (to be appointed)

County Archaeologist (Jonathan Parkhouse)

David Went (EH)

Warwickshire HER Officer (Emma Jones)

A larger Consultation Group or **Project Forum** will also monitor project progress via a series of seminars at the conclusion of each project phase (it may also be useful to have an additional meeting during phase 3)

This group will consist of the Project Team, together with

Local Authority Representatives (to be confirmed):

WCC PTES, landscape design team (Carol Thorne and /or Jerry Birkbeck)

WCC Ecology Unit, will cover the interests of the HBA (David Lowe)

Solihull MBC (Martin Saunders)

Coventry City Council (Chris Patrick)

Birmingham City Council (Dr Mike Hodder)

Stratford District Council (David Jones)  
North Warwickshire Borough Council (Paul Taylor)  
Rugby Borough Council (Paul Larcombe)  
Warwick District Council (TBC)  
Nuneaton and Bedworth Borough Council (TBC)

***Other interested Parties and Individuals:***

Ian George (EH Inspector)  
Della Hook  
David Pannett  
Stephen Warnock  
Sarah Wager  
Terry Slater  
HLC Officers from neighbouring counties

The final meeting will involve a wider group of stakeholders, which will be identified during the project.

### **5.3 Timetable**

A provisional project timetable, showing the main project stages, milestones and proposed Project Team and Project Forum meetings, is contained in the attached Gantt chart (Excel spreadsheet)

### **5.4 Copyright.**

Copyright will be shared by Warwickshire County Council and English Heritage.

### **5.5 Health and Safety.**

The project will be undertaken in accordance with WCC Health and Safety policy, as stated in the Health and safety policy documents prepared at County, Departmental and Service level and updated annually. All activities are subject to risk assessment. Copies of these policy documents and assessments will be supplied on request.

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Roberts BK & Wrathmell S 2000 *An Atlas of Rural Settlement in England*

Wager SJ 1998 *Woods, Wolds and Groves: the Woodland of Medieval Warwickshire* (BAR Brit Ser 269).

WCC 1993 *Warwickshire Landscape Guidelines* (3 vols: 1 Arden; 2 Avon Valley, Feldon, Cotswolds; 3 Dunsmore, High Cross Plateau, Mease Lowlands) Warwickshire County Council & Countryside Commission

WCC 2003 *Stratford town's urban edge: a pilot study* Warwickshire County Council

## Appendix A

**Draft list of landscape groups or broad types. This will be refined and additional types may be added during stage 1:**

UIM	Unimproved land	Enclosed? Type (eg heath, moor, hill pasture) Previous character?
FSC	Fieldsapes	Predominant field size (s,m,l) Predominant field shape (rectilinear, irregular) Predominant boundary morphology (straight, sinuous, curvilinear) Predominant secondary boundary morphology (straight, sinuous, curvilinear, none) Other internal boundary morphology (none, dog-leg, S-curve, following watercourse, co-axial) Other external boundary morphology (sinuous, settlement edge,
WDL	Woodland	Nature of boundaries (eg straight, curvilinear) On 1st edn 6"? Ancient/semi-natural? FC indicative designation (broad-leaved, coniferous, felled, mixed. Shrub, young trees, none) Previous character? Other
V	Water and valley floor	Type (eg Open water reservoir, watermeadow) Enclosed (fully, partly, unenclosed) [water features] natural/modified/manmade other
IND	Industrial	Type (eg quarry, waste tips, factory, power station) Still active? Previous character? other
MIL	Military	Type (eg airfield, munitions dump) Current use (active/alternative uses) Previous character? other
PAR	Designed landscape (ornamental, parkland, recreational)	Type (eg parkland, recreational, golf course, cemetery) Previous character?
SET	Settlement	On 1st edn OS? Post 1945?
TRA	Communications & infrastructure	Road, Rail, canal, commercial airfield, service/distribution

## Appendix B

### Plan Policies:

#### West Midlands Regional Spatial Strategy (2004)

##### Policy QE1

B. Local authorities and other agencies in their plans, policies and proposals should:

.....iv) protect and enhance the distinctive character of different parts of the Region as recognised by the natural and character areas ... and associated local landscape character assessments, and through historic landscape characterisation.

#### Warwickshire Structure Plan 1996-2011

##### **Policy ER.4**

Local plans should seek to protect and enhance landscape character and quality in all areas of Warwickshire's countryside. In particular, criteria should be established for the assessment of the sensitivity of each local landscape type to different categories of development.

(a) Special Landscape Areas should be designated by virtue of their particular landscape quality, which is of local rather than national importance. The broad extent of these areas is indicated on the Key Diagram, and should be determined precisely within local plans. Within these areas, local policies should ensure that development does not damage landscape character and that only developments which can demonstrate a high quality of design are permitted.

(b) Areas where environmental quality is poor should be identified in local plans as Environmental Enhancement Zones where new developments would be expected to contribute to the restoration of the environment. Where derelict land and unrestored mineral workings are located close to towns or cities, and are not proposed to be restored to agricultural use, local plans may provide for the restoration of this land, for recreation, public access or archaeological, geological or nature conservation use.

#### North Warwickshire Local Plan Revised Deposit Draft (April 2004)

##### Core Policy 1

Local Plan policies will conserve the character and quality of the countryside across the whole Borough by resisting dispersed, isolated and sustainable development

##### ENVA

## Landscape Character

Landscape Character impact assessment and enhancement will be required in all significant applications, especially those for development outside Development Boundaries. Assessments should accord with the methodology prepared by the County Council.

### Rugby Borough Council Local Plan Review First Deposit Draft (May 2004)

Policy E17 - Development Affecting Parks and Gardens and other elements of the Historic Landscape

Planning permission will not be granted for development, which would adversely affect the character, appearance, or setting of a:

1. Park, or Garden registered as being of Special Historic Interest, or of acknowledged local importance, or

2. Any other element of the Historic Landscape,

or which would detract from the contribution they make to other features and the wider landscape, unless:

1. The need for and benefits of the development for the community can not otherwise be achieved and are sufficient to override the need to preserve the Park, or Garden, or other element of the Historic Landscape; and

2. All opportunities for mitigating the adverse impact are taken.

Development proposals should not compromise the future restoration of such Parks, or Gardens, or other element of the Historic Landscape and wherever possible should seek to enhance such features.

### Stratford-upon-Avon Local Plan Revised Deposit Draft ( January 2003)

## 3.2 Landscape and settlement character

### Policy PR.1

All development proposals should respect and, where possible, enhance the quality and character of the area.

Proposals that would damage or destroy features which contribute to the distinctiveness of the local area will not be permitted unless significant public benefit would arise from the scheme. The value attached to such features by local communities will be taken into account.

In assessing all applications for development, thorough consideration will be given to the detailed guidance provided in supplementary planning guidance adopted by the District Council, including the District Design Guide, Countryside Design Summary and Village Design Statements.

Warwick District Council Local Plan First Deposit Draft (Oct 2003) (NB we have suggested that this policy needs to make more specific reference to historic environment and historic landscape characterisation)

### DP3 Natural Environment

Development will only be permitted which positively contributes to the character and quality of its natural environment through good habitat/landscape design and management. Development proposals will be expected to demonstrate that they:-

- a) protect and/or enhance, where necessary, existing site features of nature conservation and landscape value;
- b) protect and/or enhance, where necessary, features of historical, archaeological and geological significance;
- c) reflect and enhance the local ecology and landscape character of the area;
- d) provide appropriate levels of amenity space which incorporate suitable habitat features and hard and soft landscaping;
- e) integrate the amenity space and proposed landscaping into the overall development; and
- f) secure the long term management and maintenance of habitat/landscape features.

Development proposals which have a significant impact upon the character and appearance of an area will be required to demonstrate how they comply with this policy by way of a Landscape Analysis.

## **Solihull Metropolitan Borough Council Unitary Plan Review: Revised deposit draft (2003)**

### **POLICY C8**

#### **LANDSCAPE QUALITY**

The Council will seek to safeguard the countryside in the Borough by protecting and enhancing its landscape and historic character and quality, retaining or seeking the restoration of its diverse landscape features and maintaining local distinctiveness. Development in the countryside will be permitted only if it respects or enhances the distinctive character of the landscape.



## Appendix 3: Warwickshire HLC Desk Manual

# Warwickshire Historic Landscape Characterisation Project

Warwickshire HBSMR

**Historic Landscape Character** HWA510

Broad Type: Fieldscapes Full Type Code: FSC-16  
HLC Type: Planned Enclosure Confidence: Probable  
Name:

Configuration: Broad Types / HLC Types Attributes HLC Rules

Description Attributes Previous Types Monuments Sources

**HLC Description**

Summary: These areas with good ridge and furrow survival show a previous openfield pattern that has subsequently been enclosed in a formal organised manner. Interestingly the field pattern often reaches up to the settlement edge.

Period of Origin of Current HLC Type

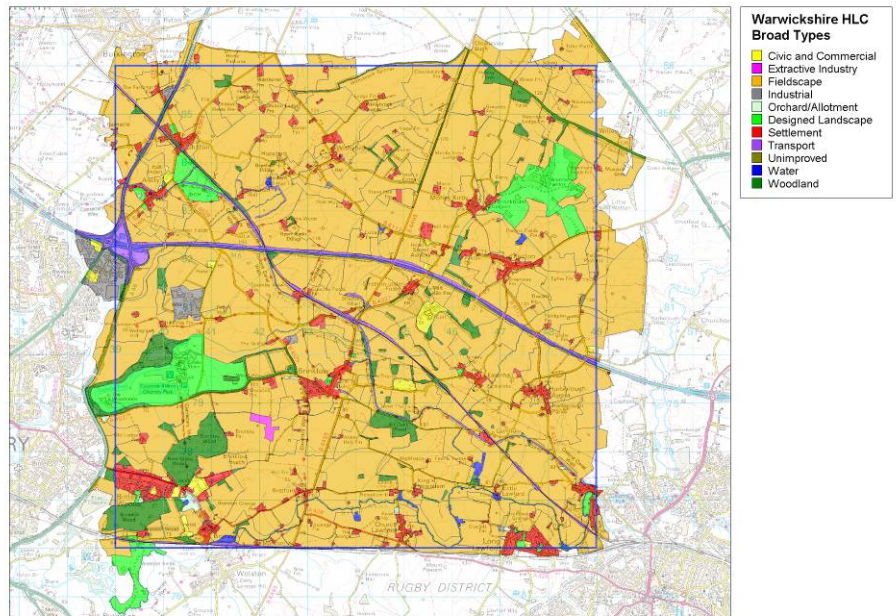
Unknown	From	Conf	To	Conf	From Period	To Period	User Defined
<input type="checkbox"/>			1884 AD			Imperial	<input checked="" type="checkbox"/>

Period: Unknown to Imperial

Description:

Centroid NGR: Centroid SP 4758 8150 (MBR: 993m by 735m) Map: SP48SE Area (Ha): 42.72

Photo Library: Associated Files: Map: XY



## Desk Manual And Revised Method Statement October 2006

(Ben Wallace, HLC Officer, Warwickshire County Council)

{v4 updated 2009}

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## Summary

This document serves as a desk manual and revised method statement to accompany the Warwickshire Historic Landscape Characterisation Project. It was written by Ben Wallace (Historic Landscape Characterisation Officer) at the end of the first stage of the project which was a familiarisation and pilot phase designed to test the methodology of the project design.

It is hoped that this document will prove useful to those who may wish to use the Warwickshire HLC or understand further the methods that have been applied. It will be a standalone element to the HLC but parts of it will also be used in the final project report.

The layout of this document starts with a brief introduction to the Warwickshire HLC project with the project area defined followed by a summary of previous characterisation work in the area.

Next the methodology is described along with the core and supplementary sources used.

Following this there is a description of the software and database used together with information on HLC record creation and data entry. Here a list of established HLC Broad Types and Sub Types is given.

There is a brief report on the pilot areas tested with some preliminary results.

Finally there is an introduction to the stakeholder forum and a look at some possible outputs and uses of HLC.

A select bibliography is given in the appendix to show sources used throughout the project.

## Introduction

*(Quoted from the Warwickshire HLC Project Design)*

“English Heritage have supported a national programme of Historic Landscape Characterisation projects over the past decade. For the most part they have been undertaken by County Council based Historic Environment Services, covering individual Counties or similar sized units. They aim to achieve an archaeologist’s understanding of the historic and cultural origins and development of the present day landscape through a desk-based programme of digital mapping, description and analysis, by the identification of the physical remains visible within the landscape that demonstrate the processes by which it has reached its present form.

Like the other members of the family of landscape characterisation studies to which it belongs, HLC provides a broad-brush overview of complex aspects of the historic environment in order to provide new and wide-ranging information for conservation, management and development decisions. The objective of HLC is to promote better management and understanding of the historic landscape resource, and of the accommodation of continued change within it, and to establish an integrated approach to its sustainable management in partnership with other organisations.

The basis of HLC is a Geographic Information System (GIS). The information within the GIS is structured by the identification and classification of archaeological historical and other environmental attributes of land parcels. Unlike other forms of landscape assessment, HLC permits the creation of a plurality of classifications of Historic landscape types. The distribution of landscape types can be mapped using GIS, with each type being supported by written descriptions of the landscape types and the particular process of landscape formation that they represent. This approach to HLC provides a permanent and renewable database, which may be used to inform a wide range of planning, conservation and management initiatives and strategies.

In the initial, data collection stage of HLC, GIS polygons will be defined, based on groups of modern land parcels exhibiting similar historic origins or processes. Each polygon will be assigned to one of a set of pre-determined high-level HLC types. An Access database, linked to the GIS, will be used to record a range of attributes reflecting the historic landscape features specific to each polygon (such as aspects of field pattern and boundary form, woodland cover, evidence for former land-use)“

### ***Location and Description of Project Area***

#### **Boundaries and Administrative units**

“The project area (see map) will consist of the following four components:

#### **The present day administrative county of Warwickshire**

The total area to be included in the study is 197,162 ha. There are five District Councils within this area: North Warwickshire, Nuneaton and Bedworth, Rugby, Warwick and Stratford-upon-Avon. Warwickshire Museum Field Services provides archaeological planning advice to all five Councils. The small part of the County (10,282 hectares) lying within the Cotswolds AONB was the subject of an earlier HLC

programme (Hoyle 1999); the current project will ensure that its results are seamlessly amalgamated into the Warwickshire HLC.

### **The administrative area of the Metropolitan Borough of Solihull**

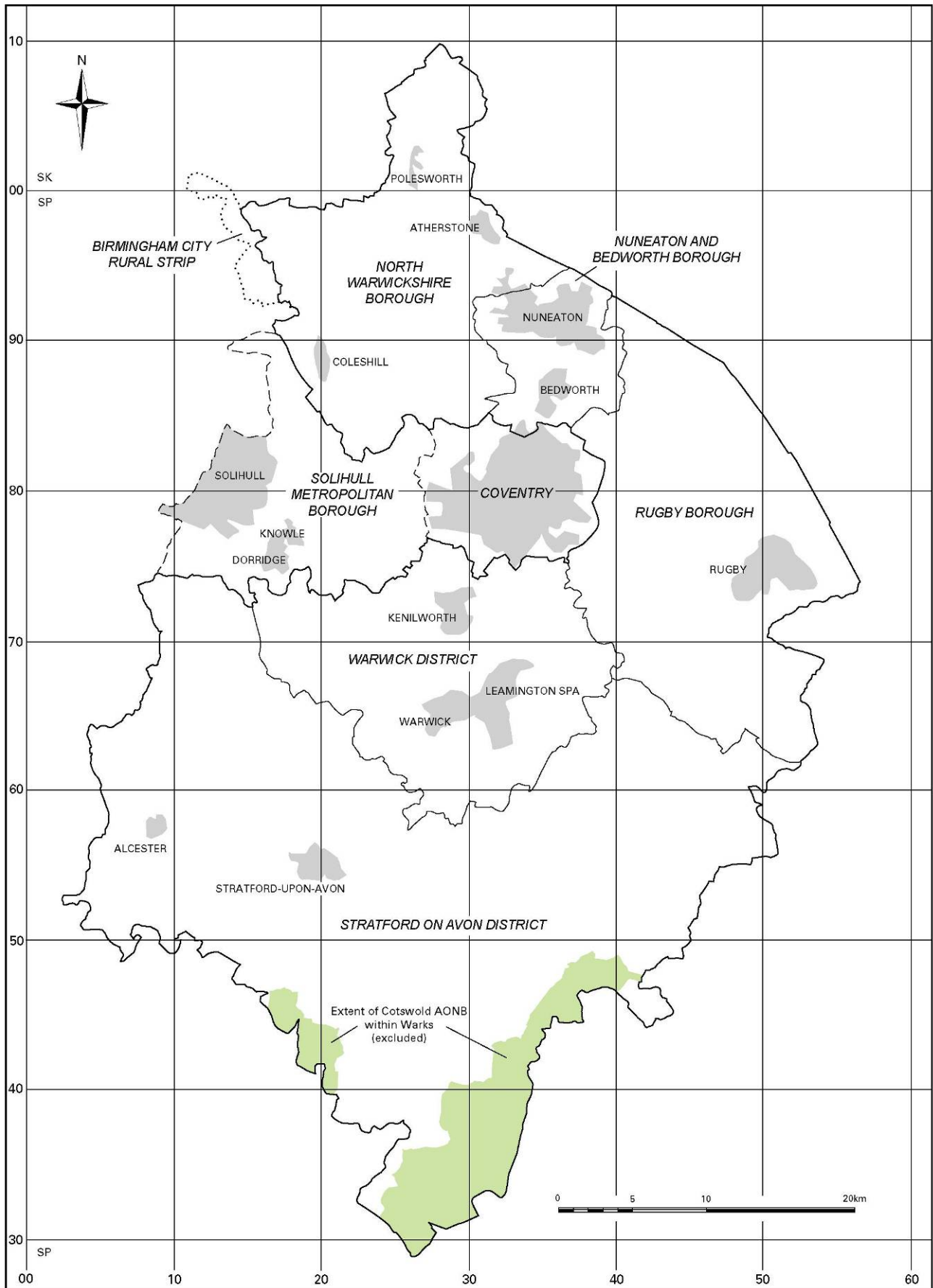
This was historically part of Warwickshire until the 1974 local government re-organisation. Archaeological planning advice is provided to Solihull MBC by Warwickshire Museum Services, who also maintain the Solihull Sites and Monuments Record. Approximately a third of Solihull is considered urban (areas of settlement totalling over 1,500 inhabitants) totalling some 6,000 hectares. Characterisation in this area could prove to be more complex than Warwickshire not least because of large 20<sup>th</sup> century development and growth leading to probable multiple present and previous HLC types. It is hoped however to keep the approach consistent and to characterise in the same detail as present day Warwickshire. Total area is 17,780 hectares.

### **The administrative area of Coventry City Council**

The Council are currently developing a Historic Environment Record which incorporates certain aspects of HLC. Following discussion with the Conservation and Archaeology Team at Coventry City Council it was agreed that Coventry should, if possible, be included within this HLC programme. However, in order not to duplicate work already being undertaken, it was decided only to provide very broad-brush detail for the historic core, since the Coventry team will be developing an extensive series of both data and interpretative maps for the city, using the very extensive data which survives; an attempt to undertake detailed characterisation of the urban core as part of this HLC project would be inappropriate. However, the exact details of what level of characterisation would be appropriate for this area have yet to be fully confirmed. More detailed work will be undertaken in the rural fringe of Coventry where the City Council are not themselves undertaking characterisation work. Careful liaison with the Coventry Conservation and Archaeology Team will ensure that methodologies are complimentary and compatible. Area 9,834 hectares.

### **Part of the administrative area of Birmingham City Council**

The rural strip within Birmingham to the east of Sutton Coldfield, roughly between Curdworth and Watford gap; this too was part of Warwickshire until 1974. This is an area of 1,545 ha.



Map showing project area.

**Summary Table of Project Area (hectares):**

<b>Area</b>	<b>Previously Quoted Total (from Project Design)</b>	<b>Actual GIS Area</b>	<b>Urban (areas over 1500 inhabitants)</b>	<b>Percentage Urban</b>
North Warwickshire	28300	28340		
Nuneaton	7872	7872		
Rugby	35250	35250		
Warwick	28200	28200		
Stratford	97500	97500		
<b>Total (Warwickshire)</b>	<b>197122</b>	<b>197162</b>	12690	6.4%
Solihull	17780	17780	5935	33.33%
<b>Total (Warwickshire and Solihull)</b>	<b>214902</b>	<b>214942</b>		
Birmingham rural fringe	1500	1545		
Coventry	9834	9834	7004	71.23%
<b>Total</b>	<b>226236</b>	<b>226321</b>		
(minus Cotswold AONB)	-10282	-10282		
<b>Total study area</b>	<b>215954</b>	<b>216039</b>	25630	11.81%

## Landscape Character

Historic Warwickshire contains a variety of landscape types. Landscape assessment undertaken in 1990-93 (WCC 1993) identified seven main character areas, of which four were largely within Warwickshire and the remainder largely within adjoining counties.

The four distinctively 'Warwickshire' landscapes are:

Landscape	Description
<b>Arden</b>	The Arden covers much of the north-western part of the study area, and consists of a region of former wood pasture and heath. The settlement pattern is typically dispersed, with area of ancient woodlands and mature hedgerow oaks
<b>Dunsmore Plateau</b>	A glacial plateau in the eastern central part of the area around Rugby with sandy soils, much of it heathland until comparatively late
<b>Avon valley</b>	River terraces and alluvium along the river corridor, containing nucleated villages and market towns; prosperous farms, market gardening, orchards and meadow pasture
<b>Feldon</b>	Claylands in the southern part of the county and extending into Northants, with a high level of relatively early enclosure, large geometric fields and nucleated settlements

The remaining landscape types are:

Landscape	Description
<b>Mease Lowlands</b>	The north eastern edge of the study area is an area of large estates and small nucleated villages, extending into Leicestershire
<b>High Cross Plateau</b>	Open clay wolds with small nucleated villages, extending along the Leicestershire border to the south of the Mease Lowlands
<b>Cotswolds</b>	Limestone uplands. The Cotswolds AONB was the subject of an earlier HLC study (Hoyle 1999) and is excluded from the Warwickshire HLC project

## ***Landscape Characterisation Programmes***

The Warwickshire chapter of the Land Utilisation Survey of Britain was published in 1946, drawing largely upon studies undertaken in the early 1930s (McPherson 1946). This survey makes no reference to historic landscape; it is of interest however in containing much information about mid-C20th land use, although its usefulness in the present context is limited by the very large scale of the maps.

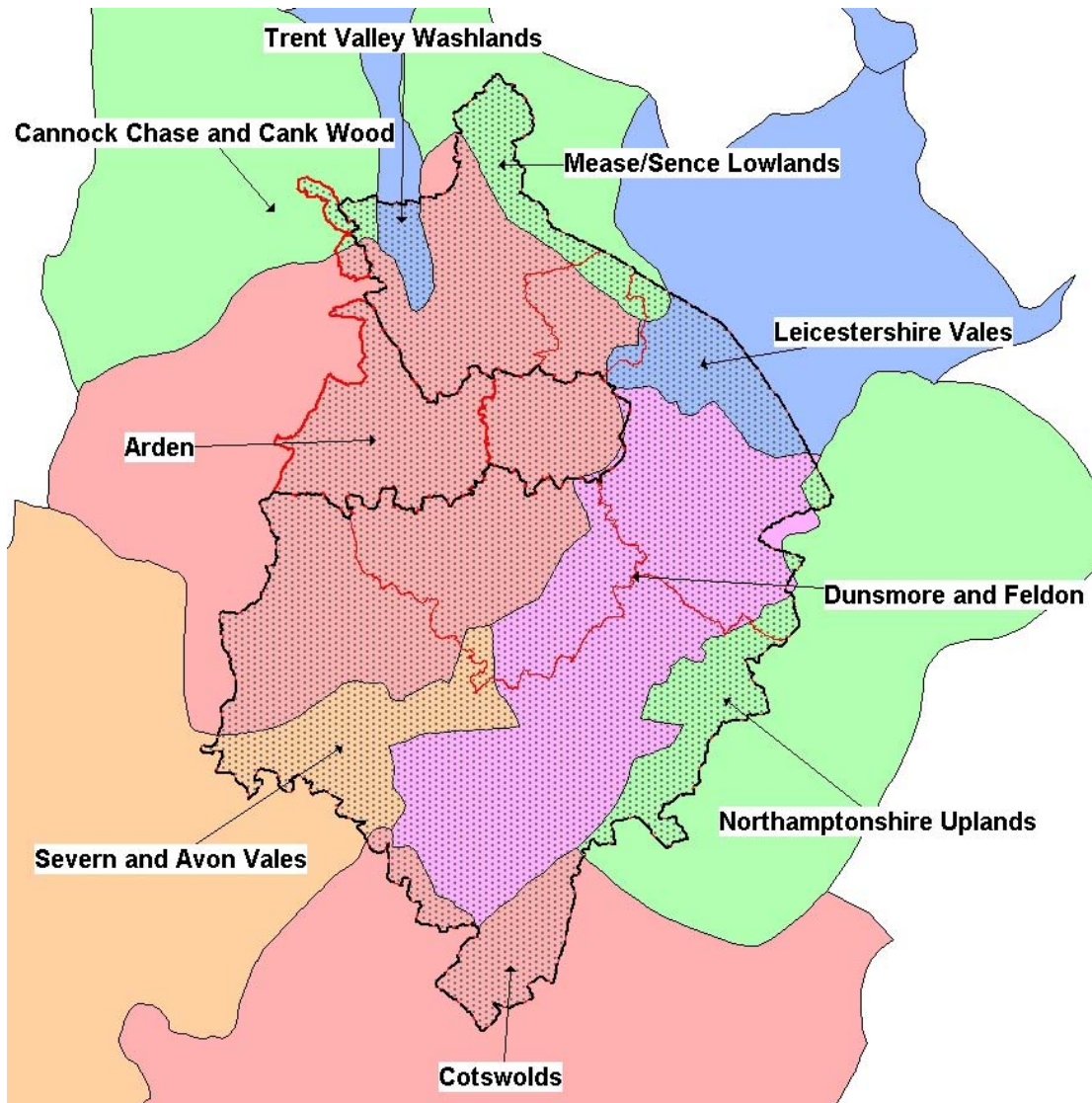
Other early attempts to describe the historic character of the landscape have been at an extremely low resolution; thus descriptions such as the brief summary by Kinvig (1971) is no more than a geographical pen portrait. The work of David Pannett and others (unpublished, but see Harrison, Mead and Pannett 1965) in mapping the open fields is clearly relevant to landscape character, although the scale of the mapping, the restricted range of sources used, and its non-digital format, means that its use in the present programme may be problematic.

A Warwickshire Landscapes Project was established in 1987 as a partnership between the County Council and the Countryside Commission. The main purpose of the project was to develop a methodology for landscape assessment suited to lowland England as well as to consider the distinctive characteristics of the Warwickshire landscapes. The principle output was the three volume *Warwickshire Landscape Guidelines* (WCC 1993; hereinafter WLG), consisting of a landscape assessment for each of the main areas and a series of general guidelines for management and development purposes. The landscape assessments identified local landscape types within each of the primary character areas; these were mapped in non-digital format.

Amongst the sources used for the Warwickshire Landscapes Project was a series of 1:50,000 maps drawn up by Dr Della Hooke showing a number of basic character

areas (e.g.: woodland, orchards, C18th enclosures, commons, deer parks). Unfortunately these maps are not cross-referenced to the source material from which they were derived, and their use in the present programme will therefore be limited. Nevertheless it is intended to consult Dr Hooke, who it is intended should be part of the Stakeholder Project Forum.

A broad framework for landscape characterisation at a national scale was provided by the publication in 1996 by the former Countryside Commission and English Nature, with support from English Heritage, of the Joint Character Map of England. This identified 159 landscape character areas and was accompanied (from 1998) by descriptions of each area, together with the influences which had shaped their character and some of the main pressures for change. This work provides a top tier of landscape character assessment, but the necessarily broad-brush treatment does not address individual landscape types.

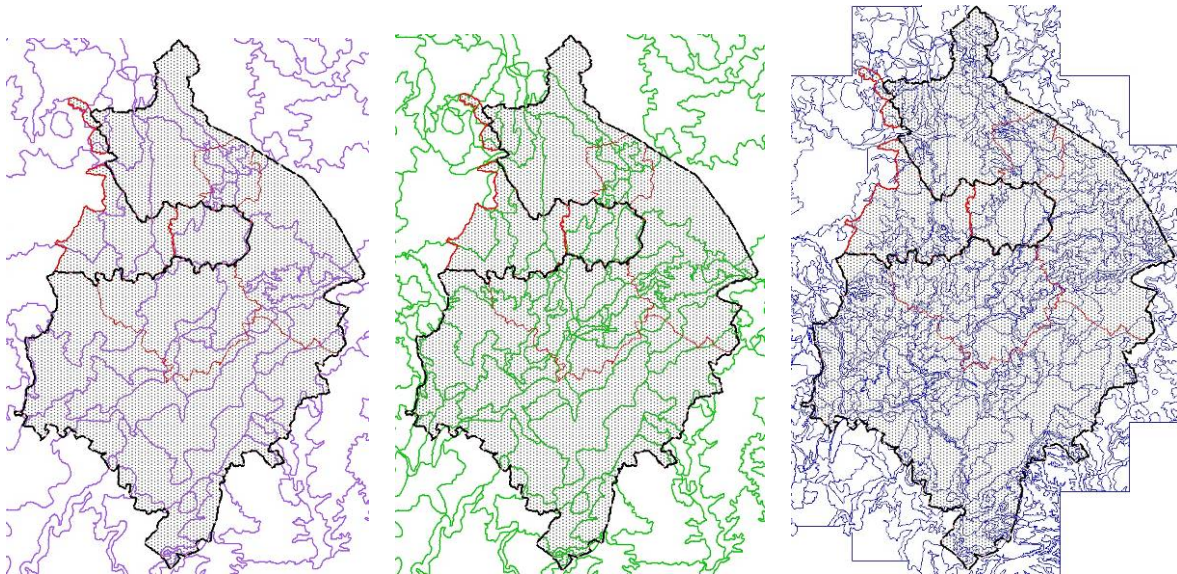


Map showing the Countryside Agency Join Character Areas and HLC Project Area.

More recent landscape assessment work includes studies undertaken by the Planning, Transport and Economic Strategy Department of WCC in Dordon (North Warwickshire) and around the urban fringe of Stratford upon Avon (WCC 2003): similar work is presently in progress around Rugby's urban fringe, whilst further work is envisaged around Coventry.

The Stratford study was undertaken in conjunction with the Living Landscapes Project, a partnership between local authorities, academic institutions and national government agencies with a view to developing an integrated GIS-based framework

for decisions in respect of planning and land-management in accordance with national/regional policy objectives. The study identified nine Landscape Character Types based on a number of smaller Landscape Description Units (LDUs), which in turn were aggregations of smaller Land Cover Parcels. The study was also the pilot for the development of a GIS-based LDU map for Warwickshire. Digitisation of the LDUs for level 2 is complete, although the accompanying descriptions have yet to be written. Currently there is work being carried out by Warwickshire County Council to rewrite and re-release the Warwickshire Landscape Guidelines taking the Level 2 LDUs into account.



Maps showing Landscape Character Types, Landscape Description Units (Level 1) and Landscape Description Units (Level 2) respectively.

Other relevant topic-based studies include Dr Sarah Wager's work on Warwickshire woodlands (Wager 1998) and the English Heritage funded study of Midland open fields (Hall 2001), whilst the Habitat Biodiversity Audit has built up an important and detailed database of the County's ecological diversity which will also reflect the long term influence of human beings on local landscapes. Comparison of HLC patterns

and the results of these previous studies will be a particular consideration within later review, analysis and interpretation stage of the HLC project.

## Methodology Detail

The Warwickshire HLC project, like most others, is based on previous HLC projects that have taken place with adaptations to the methodology and process to reflect local distinctiveness or that are felt innovate or contribute to the whole HLC process itself. Warwickshire owes much to the Staffordshire and Shropshire HLC projects and is loosely based on these. Other ideas and techniques have been adopted from the current Black Country and Leicestershire HLC projects. To some extent all previous HLC projects have contributed in some way to define current HLC projects.

### **Context:**

#### **National context**

The HLC project will form part of a national programme sponsored and encouraged by English Heritage. The need for the programme is best understood as a response to two gaps in understanding: one, of the historic environment resource at a landscape level, with a consequent lack of a robust framework for taking decisions in respect of managing change, and the second as a gap in landscape assessment where the historic and archaeological dimension landscape (time depth) is concerned. HLC is therefore designed to assist both archaeologist (and other HE managers) and landscape architects (and other countryside managers).

The development of the HLC methodology over the past decade has both reflected and informed changes in emphasis in the way archaeologists describe and manage the historic environment (Aldred & Fairclough 2003). These changes include:

- a concern with the whole of the humanly modified landscape rather than solely the demonstrably archaeological 'sites' within it
- a change in analytical scale from the small-scale site/monument to the wider landscape. This is in fact a long-term archaeological and historic concern, going back at least to the studies by WG Hoskins; however, much of the earlier emphasis tended to concentrate on particular topographies such as upland areas with good earthwork and field monument survival. More recent studies have helped focus understanding of aspects of the landscape at a much wider scale, as exemplified by the EH Settlement Atlas (Roberts and Wrathmell 2000 &c)
- an increased concern with integrated and sustainable policy development and decision-making. In particular the establishment of landscape assessment methodologies has stimulated the development of methodologies for integrating archaeologically-based approaches; thus the processes of landscape assessment (Countryside Agency/ Scottish Natural Heritage 2002) have required that a separate type of characterisation undertaken from the landscape archaeologists' perspective be developed. HLC, with its specialist analysis by archaeologists of the time depth of landscape, provides finer detail and greater understanding than Landscape Character Assessment (LCA) on its own. Ideally HLC should inform LCA, but even where this is not possible, LCA descriptions and analyses can be relatively easily modified in the light of subsequent HLC
- a developing political context for understanding landscape, as shown, for example, by the European Landscape Convention of 2000 and in the

Government's 2001 statement *A Force for our Future*.(3.19: 'The Government commends character assessment to local authorities both as a useful tool in itself and as a way of encouraging greater involvement by local communities in conservation issues').

- a move from concern with 'relict' landscapes to concern with the present-day landscape which has been shaped by change and modification over centuries and millennia and by a variety of processes
- a realisation that the concept of 'landscape' is based on subjective considerations (intellectual, emotional and aesthetic, themselves each socially- as well as individually-developed) as well as objective criteria. Landscape is something which we perceive, even more than it is something we create.
- a more detailed articulation of the realisation that understanding landscape depends on understanding the dynamics of its creation and the underlying cultural processes and political, social, economic and cultural influences.
- the realisation that the best means of protecting historic landscape is not designation (although on occasion this may have a role to play) but sound management underpinned by accessible data which could be analysed and understood. This realisation was initially at odds with the invitation contained within the 1991 Government White Paper 'This Common Inheritance' to establish a Register of Historic Landscapes, which led to the EH conclusion that such a register would only be partial and selective and thus an inappropriate means of managing historic landscape character (Fairclough *et al* 1999). Achieving the necessary understanding of the data is the key aim of HLC.
- a move, in the more recent HLC projects, away from classification-led systems (in which land was allocated to pre-defined types) towards an attribute based-system in which interpretations and observations are attached not to the pre-ordained types but to individual mapped polygons which can be subsequently analysed, thus enabling a multiplicity of classifications and interpretations as well as a transparency of analysis
- The acceptance that, despite the sophistication of GIS, HLC is a relatively generalised characterisation of the landscape's historic attributes which is intended to serve as a means of resource management, and which provides an approach which is consistent, transparent, repeatable and comprehensive (no gaps). This approach leaves open the possibility of more detailed assessment being undertaken later as necessary. It can thus be used for spatial planning, development control, landscape strategies and resource management (e.g. Clarke, J., Darlington, J. & Fairclough, G. 2004 *Using Historic Landscape Characterisation*. English Heritage & Lancashire County Council.)
- Acknowledgement of the interpretative, subjective character of landscape; HLC is thus not another environmental database

### **Local context**

The reasons for this HLC project are several:

- It will articulate existing Structure Plan Policy and Local Plan Policy, as well as the emerging framework of Regional Spatial Strategy and Local Development Plans
- It will, when integrated with HLC undertaken in adjacent areas, provide a context for developing Regional agenda
- It will provide additional baseline information for landscape strategies and landscape assessments
- It will provide baseline information for local environmental strategies (including Conservation Area Appraisals, Parish Plans and Village Design Statements) and LA21 agenda
- It will provide a context for advice given to DEFRA in terms of targeting priorities for joint character areas, and for advice given in respect of Environmental Stewardship
- It will provide a context for management of the County Council's own rural estates
- It will provide a fundamental, holistic and meaningful landscape layer against which to interrogate other layers within the County Historic Environment Record
- It will provide a dataset which will provide additional context for other County-wide GIS datasets, such as biological and geological records, and the Habitat Biodiversity Audit
- It will provide a context for subsequent development of an Extensive Urban Survey for Warwickshire and Solihull
- It will provide a context for possible future research, for example on characterisation of vernacular buildings.

## **Resources**

### **Database**

The exeGesIS HBSMR HLC module is used to record the data. This is essentially an Access database with linked GIS capability. Currently the HBSMR version used is 3.26 and the GIS is MapInfo 8.5.

Using this software will make it available for consultation by archaeologists, planners, researchers and the general public. Advantages to using the module are:

- It is a proven system currently used by a number of HLC projects (Wolverhampton, Norfolk, South Yorkshire). Where limitations have been encountered, such as limited functionality when it comes to 'previous' landscape character fields, reasonable solutions have been found.
- The HLC module will benefit from future improvements to the HBSMR system made by exeGesIS.

- The project will benefit from the experience and knowledge that has built up in the locations already using the HBSMR HLC module
- The HLC module is one of many that make up both the Warwickshire and Solihull HERs providing a direct link between the different data sets. It is hoped that the HLC will remain a dynamic dataset with updates, additions etc along with the rest of the HER.

## Sources

A variety of sources are used in the HLC process, these are listed below as 'core' sources (used on a day to day basis) and 'supplementary' sources (used on a more infrequent basis or for specific cases).

### Core Sources:

Source Name	Description	Coverage	Format	Original Source Date	Location	Copyright
OS First Edition	Ordnance Survey First Edition 6" to 1 mile historic mapping	Warks: Complete Solihull: Vastly Incomplete, Awaiting from English Heritage Coventry: Vastly Incomplete contact Coventry CC B'ham Strip: Complete	Digital Black and White Raster MapInfo Layer	1884-1892	Warwickshire County Council <a href="H:\HCSMuseumFieldServices\Data\Landmark\10560CS\36warw11\36warw11.TAB">H:\HCSMuseumFieldServices\Data\Landmark\10560CS\36warw11\36warw11.TAB</a>	Landmark and Ordnance Survey
OS Second Edition	Ordnance Survey Second Edition 6" to 1 mile historic mapping	Warks: 95% Complete Solihull: Vastly Incomplete, Awaiting from English Heritage Coventry: Vastly Incomplete contact Coventry CC B'ham Strip: Complete	Digital Black and White Raster MapInfo Layer	1900-1906	Warwickshire County Council <a href="H:\HCSMuseumFieldServices\Data\Landmark\10560CS\36warw12\36warw12.TAB">H:\HCSMuseumFieldServices\Data\Landmark\10560CS\36warw12\36warw12.TAB</a>	Landmark and Ordnance Survey
OS 1955	Ordnance Survey Second Edition 6" to 1 mile historic mapping	Warks: Complete Solihull: Vastly Incomplete Contact Solihull MBC Coventry: Complete B'ham Strip: 95% complete	Digital Black and White Raster MapInfo Layer	1955	Warwickshire County Council <a href="H:\HCSMuseumFieldServices\Data\Landmark\10000NG\War1_i5\War1_i5.TAB">H:\HCSMuseumFieldServices\Data\Landmark\10000NG\War1_i5\War1_i5.TAB</a>	Landmark and Ordnance Survey
OS Land Line	Modern Ordnance Survey Digital Vector	Complete Coverage	Digital Vector (polygon, polyline and point) MapInfo	2000-2004	Warwickshire County Council <a href="H:\HCSMuseumFieldServices\Data\OSdat">H:\HCSMuseumFieldServices\Data\OSdat</a>	Ordnance Survey

	mapping		Layer		<a href="#">a\VECTOR\1250</a>	
OS Modern Colour	Modern 1:10,000 colour Mapping	Complete Coverage	Digital colour Raster MapInfo Layer	2000 (approx)	Warwickshire County Council <a href="#">H:\HCSMuseumField Services\Data\OSdata\RASTER\10000C\Rast10C.TAB</a>	Ordnance Survey
Aerial Photos	Modern colour aerial photographs (0.25m resolution)	Partial Coverage	Digital Colour Raster MapInfo Layer	2000 (approx)	Warwickshire County Council <a href="#">H:\HCSMuseumField Services\Data\OSdata\RASTER\AERIAL\Aerial.TAB</a>	?
Getmapping Aerial Photos	Modern colour aerial photographs (2.00 m resolution)	Complete Coverage	Digital Colour Raster MapInfo Layer	2000 (approx)	Warwickshire County Council <a href="#">H:\Confidential\HCSMuseumFieldServices\SMR\HLC\GIS\Data\Aerial Photos\</a>	Getmapping
HER	Historic Environment Records	Warwickshire: Complete Solihull: Complete Coventry: Incomplete, contact Coventry CC B'ham Strip: Incomplete, contact BCC	HBSMR data (Combination of digital Microsoft Access data with MapInfo polygon Vector layers) as well as other digital and paper-based records.	2006 (and continuously updated)	Warwickshire County Council <a href="#">H:\HCSMuseumField Services\SMR\HBSMRv3\</a>	Warwickshire County Council
Scheduled Ancient Monuments or SAMs	Schedule of Monuments	Complete Coverage	Digital Vector (polygon) MapInfo Layer		Warwickshire County Council <a href="#">H:\HCSMuseumField Services\SMR\HBSMRv3\Works\mapdata\Manageme.TAB</a> Also available online at: <a href="http://www.magic.gov.uk">http://www.magic.gov.uk</a>	English Heritage
Listed Buildings	Statutory list of buildings of 'special architectural or historic interest'	Complete Coverage	Digital Vector (point) MapInfo Layer		Warwickshire County Council <a href="#">H:\HCSMuseumField Services\SMR\HBSMRv3\Works\mapdata\DesigLB_WA.TAB</a> Also available online at: <a href="http://bonline.english-heritage.org.uk">http://bonline.english-heritage.org.uk</a>	English Heritage
Registered Parks and Gardens	Register of Parks and Gardens of special historic interest in England	Complete Coverage	Digital Vector (polygon) MapInfo Layer		Warwickshire County Council <a href="#">H:\HCSMuseumField Services\SMR\HBSMRv3\Works\mapdata\Manageme.TAB</a> Also available online	English Heritage

					at: <a href="http://www.magic.gov.uk">http://www.magic.gov.uk</a>	
HBA	Warwickshire, Coventry and Solihull Phase One Habitat Biodiversity Audit Dataset	Complete Coverage	Digital Vector MapInfo Layer	2005	Warwickshire County Council H:\Confidential\HCSMuseumFieldServices\HBA	All HBA Partners
Ridge and Furrow	Extant Ridge and Furrow plots from the Midlands Open Field Project and work using aerial photos from circa 1994	Almost Complete Coverage	Digital Vector MapInfo Layer	1994	Warwickshire County Council <a href="H:\HCSMuseumFieldServices\SMR\HBSMRv3\Warks\mapdata\r ridge and furrow\compr+f.TAB">H:\HCSMuseumFieldServices\SMR\HBSMRv3\Warks\mapdata\r ridge and furrow\compr+f.TAB</a>	Warwickshire County Council?
Ancient Woodland	The Ancient Woodland Inventory for England	Complete Coverage	Digital Vector MapInfo Layer	2004	Warwickshire County Council <a href="H:\HCSMuseumFieldServices\Data\Ancient Woodland">H:\HCSMuseumFieldServices\Data\Ancient Woodland</a> Also available online at: <a href="http://www.magic.gov.uk">http://www.magic.gov.uk</a>	English Nature (Natural England)
Flood Zone Map	The Flood Map	Complete Coverage	Digital Vector MapInfo Layers	October 2006 (and continued updates)	Warwickshire County Council <a href="H:\HCSMuseumFieldServices\Data\Floodzone\Tab">H:\HCSMuseumFieldServices\Data\Floodzone\Tab</a>	Environment Agency

## Supplementary Sources

Source Name	Description	Coverage	Format	Original Source Date	Location	Copyright
Geology	BGS DiGMapGB50 Geological Data	Complete Coverage	Digital Vector MapInfo Layer	1998-2006 but based on earlier paper Geology maps	Warwickshire County Council <a href="H:\Confidential\HCSMuseumFieldServices\SMR\AssessmentProject\GIS Data\BGS Geology Data\warwickshire_solihull\DiGMapGB50\MapInfo_3_14">H:\Confidential\HCSMuseumFieldServices\SMR\AssessmentProject\GIS Data\BGS Geology Data\warwickshire_solihull\DiGMapGB50\MapInfo_3_14</a>	BGS
Urban Areas	Urban Areas map (where areas of settlement have more than 1,500 inhabitants)	Complete Coverage	Digital Vector (polygon) MapInfo Layer		Warwickshire County Council <a href="H:\Confidential\HCSMuseumFieldServices\SMR\AssessmentProject\GIS Data\ONS\EW_UrbanAreas_G.TAB">H:\Confidential\HCSMuseumFieldServices\SMR\AssessmentProject\GIS Data\ONS\EW_UrbanAreas_G.TAB</a>	Office for National Statistics
Joint Character Areas		Complete Coverage	Digital Vector (polygon) MapInfo		Warwickshire County Council <a href="H:\Confidential\HCSMuseumFieldServices\SMR\HLC\GIS\Data\Countryside">H:\Confidential\HCSMuseumFieldServices\SMR\HLC\GIS\Data\Countryside</a>	Countryside Agency

			Layer		<a href="#">Agency\Character Area Shapefiles\Joint Character Areas\Joint Character Areas.TAB</a> Also available online at: <a href="http://www.magic.gov.uk">http://www.magic.gov.uk</a>	
Landscape Character		Complete Coverage	Digital Vector (polygon) MapInfo Layer		Warwickshire County Council <a href="#">H:\Confidential\HCSMuseumFieldServices\SMR\HLC\GIS\Data\Countryside Agency\Character Area Shapefiles\Landscape Character Types\Landscape Character Types.TAB</a>	Countryside Agency
LDUs Level 1	Landscape Description Units at level 1.	Complete Coverage	Digital Vector (polygon) MapInfo Layer		Warwickshire County Council <a href="#">H:\Confidential\HCSMuseumFieldServices\SMR\HLC\GIS\Data\Countryside Agency\Character Area Shapefiles\Landscape Description Units\Landscape Description Units.TAB</a>	Countryside Agency and Living Landscapes Project
LDUs Level 2	Landscape Description Units at level 2 (better definition)	Complete Coverage	Digital Vector (polygon) MapInfo Layer	2006?	Warwickshire County Council <a href="#">H:\Confidential\HCSMuseumFieldServices\SMR\HLC\GIS\Data\SHPWarks_2(b).TAB</a>	Countryside Agency and Living Landscape Project?
Google Earth/ Google Map	Digital Online Data Streamed Mapping Software with aerial photography coverage	Complete Coverage (however resolution varies)		Appears to be between 2000-2006?	Online: <a href="http://earth.google.com/">http://earth.google.com/</a> or <a href="http://maps.google.com/">http://maps.google.com/</a>	Google and others (needs software to run it, however there is an online version)
Registered Common Land	Map showing National Registered Common Land	Complete Coverage	Digital Vector (polygon) MapInfo Layer		Warwickshire County Council <a href="#">H:\Confidential\HCSMuseumFieldServices\SMR\HLC\GIS\Data\CommonLand.Tab</a>	Countryside Agency
Beighton's Maps of Warwickshire	Maps of the Hundreds of Warwickshire published in Dugdale's Antiquities of Warwickshire	Complete Coverage	Black and White Paper Maps	1725	In Antiquities of Warwickshire by Sir William Dugdale (1730). Held at Warwickshire County Council, Museum Field Services, The Butts, Warwick, CV34 4SS	
Greenwoods Map of Warwickshire			Colour Paper Maps (Original). Black and White Copies used.	1822	Original colour maps are held in the Warwickshire County Records Office Black and White Copies are held at the Warwickshire County Council, Museum Field Services, The Butts, Warwick, CV34 4SS	
Victoria County History	The Victory History of the Counties of	Complete Coverage	Book	1904-1969	Copies held at Warwickshire County Council, Museum Field Services, The Butts, Warwick,	

	England, Warwickshire Vols 1-8				CV34 4SS	
Contour Mapping	Digital Contour maps of Warwickshire created by processing Digital Terrain / Surface data acquired by a technology known as IFSAR	Complete Coverage	Digital Vector MapInfo Layer	2002-2004	Warwickshire County Council <a href="H:\HCSMuseumFieldServices\Data\Contours\ContoursWA.Tab">H:\HCSMuseumFieldServices\Data\Contours\ContoursWA.Tab</a>	InterMap
Windows Live Local	Digital Online Data Streamed Mapping Software with aerial photography coverage	Complete Coverage at high resolution		1999-2001?	Online: <a href="http://local.live.com/">http://local.live.com/</a>	Microsoft Corporation and Others
Woodland and Trees	National Inventory of Woodland and Trees	Complete coverage (not yet received from Forestry Commission)	Digital Vector MapInfo Layer	?		Forestry Commission

## ***Defining Polygons***

The Warwickshire HLC is a predominantly desk-based exercise that draws together information from a variety of sources.

Polygons are defined by grouping together individual units from OS digital mapping on the basis of a common current land use, previous land use and morphology. Each polygon will therefore contain a particular combination of attributes which can be assigned to a single HLC type. Generally HLC polygons are digitised in MapInfo direct to screen at 1:10,000 scale.

In rural areas the usual minimum size for HLC polygons is 1 ha since it is assumed that landscape character cannot be reasonably determined for areas smaller than this. For urban areas though there may be cases where HLC polygons can be defined less than 1 ha in size. In general in HLC the approach has been to avoid small polygon sizes.

## ***Data structure***

Each of the Polygons created through the mapping process will have data attached to them as linked records held in the HLC module of the HBSMR software. The structure of the data is largely determined by the HLC module itself however Broad Types, HLC Types and associated attributes are customised to meet the requirements of the study area. The definitions of these can be found below.

The nature of the HLC module is that it is dynamic, enough so that new HLC types can be added and previously defined ones can be updated or changed. It is very

unlikely that the HLC Broad Types will change but for HLC types it is possible through the life of the project that new ones are identified. This has happened in the Pilot stage and they were easily added to the database (e.g. Common Grazed Woodland Type). It is hard to predict all the HLC Types that are going to be found over such a large and often diverse landscape.

### HLC Information held in the GIS

Some data is held directly in the GIS, this is transferred across from the HLC record in the HBMSMR HLC module:

Field	Explanation
HLCUID	Unique Identifier linking the polygon to the HLC record in the HBMSMR database
Broad Type	HLC Broad Type
HLC Type	HLC Type
Name	Name of HLC record
Summary	Summary description
Confidence	Level of confidence that area is of particular HLC type

At the moment the HLC Broad Type and HLC Type is only being shown in the GIS as the short code used in the HLC database. It is hoped to alter this to show the actual HLC Broad Type and HLC Type name.

Other spatial data (such as size of polygon etc) is held automatically by the GIS software.

### Historic Landscape Character Broad Type Definitions

Each of the HLC records in the database is assigned a basic classification category, known as an HLC Broad Type. In the Warwickshire HLC there are 12 Broad Types as defined below.

Broad Type	Code	Scope Note
Unimproved land	UIM	Areas of land that have remained largely unimproved over a period of time this includes Heathland, Commons and Unimproved Grassland.

<b>Fieldsapes</b>	FSC	Areas of land that are identified as being used for some form of agriculture. This will be predominantly enclosed land but includes previous medieval open fields.
<b>Woodland</b>	WDL	Areas of land that are predominantly covered with trees.
<b>Water and valley floor</b>	WAT	Areas of land that are dominated by water or water related features
<b>Industrial</b>	IND	Areas of land that have been identified as having a predominantly industrial component but are not related to the extractive industries.
<b>Extractive</b>	EXT	Areas of land that have been identified as being related to the extractive industries.
<b>Military</b>	MIL	Areas of land that are being used for military purposes.
<b>Designed landscape (ornamental, parkland, recreational)</b>	PAR	Areas of land that have been identified as having a predominantly designed aspect to them.
<b>Settlement</b>	SET	Areas of land that have a predominantly populated and settled character, this also includes farms and farmsteads.
<b>Transportation</b>	TRA	Areas of land that are related to some form or transportation.
<b>Civic and Commercial</b>	CIV	Areas of land that have a predominantly civil or commercial use.
<b>Orchards and Allotments</b>	ORC	Areas of land that can be identified as some form of small-scale horticulture. This type includes more modern nurseries and garden centres.

## Historic Landscape Character Type Definitions

Each of the previous HLC Broad Types have been further sub-divided into more specific Historic Landscape Character Types and each HLC record will be associated with one of these.

Broad Type	Subtype	Code	Scope Note	Current/ Previous/
<b>Unimproved land</b>	<b>Heathland</b>	<b>1</b>	Areas that have been identified as heathland by English Nature's Lowland Heathland Inventory and by the Warwickshire, Solihull and Coventry Habitat Biodiversity Audit. It is further defined by the UK Biodiversity Action Plan.	Both

	<b>Unimproved Scrubland</b>	<b>117</b>	Areas of unimproved land that do not fall into any of the other categories. These generally are areas of scrub where the landscape, geology, soil type or for other reasons have left the land unusable.	Both
	<b>Other Commons</b>	<b>2</b>	Areas of common land identified on the Countryside Agency's National Registered Common Land Map or other identifiable common land that does not fall into the other categories.	Both
	<b>Unimproved Grassland</b>	<b>3</b>	Areas that have been identified by the Warwickshire, Solihull and Coventry Habitat Biodiversity Audit as Unimproved Grassland either of acidic, neutral or calcareous type.	Both
<b>Fields</b>	<b>Rectilinear Squatter Enclosure</b>	<b>10</b>	Small rectilinear fields usually with a more ordered appearance and predominantly with straight boundaries. They are usually associated with networks of lanes, access tracks or small cottages and quarries, mining or other industrial activity.	Both
	<b>Meadow</b>	<b>108</b>	A piece of grassland, often near a river, permanently covered with grass which is mown for use as hay. Generally these are found as long thin fields with sinuous boundaries alongside rivers, brooks and streams.	Both
	<b>Encroachment Enclosure</b>	<b>11</b>	Small rectilinear or irregular fields that appear to have been encroachment onto common land in the post-medieval or later periods however they are not in close proximity to any settlement or industry.	Both
	<b>Floodplain</b>	<b>116</b>	Areas of land that are recognised as regularly flooding or at risk of flooding from nearby rivers, brooks or other water courses. Often this land is used as meadow.	Both
	<b>Small Irregular Fields</b>	<b>12</b>	Small irregular fields which cannot be assigned to one of the other historic landscape character types. Includes small meadows and closes not occurring next to settlements.	Both
	<b>Large Irregular Fields</b>	<b>13</b>	Large irregular fields with a number of sinuous boundaries which cannot be assigned to one of the other historic landscape character types. Includes enclosure patterns created through the amalgamation of fields since the publication of the 1st edition OS	Both
	<b>Piecemeal Enclosure</b>	<b>14</b>	Field systems that have been created out of the medieval open fields by informal agreement. They appear to have been established on a field by field basis and often are small irregular fields with at least two boundaries of a reverse 'S' curve or 'dog-leg'	Both
	<b>Re-organised Piecemeal Enclosure</b>	<b>15</b>	Small irregular or rectilinear fields that have lost 10% or more field boundaries since the OS 1st edition mapping or areas of large irregular or rectilinear fields. At least two field boundaries will have a reverse 'S' curve or 'dog-leg' morphology.	
	<b>Planned Enclosure</b>	<b>16</b>	Small or large enclosures with a predominantly straight boundary morphology giving a geometric, planned appearance. Laid out by surveyors these field patterns are the result of later enclosure during the 18th and 19th centuries.	Both

	<b>Other Small Rectilinear Fields</b>	<b>17</b>	Small rectilinear fields which cannot be assigned to one of the other historic landscape character types. Includes small meadows and closes not occurring next to settlements.	Both
	<b>Other Large Rectilinear Fields</b>	<b>18</b>	Large rectilinear fields which cannot be assigned to one of the other historic landscape character types. Includes enclosure patterns created through the amalgamation of fields since the OS 1st edition mapping.	Both
	<b>Very Large Post War Fields</b>	<b>19</b>	Very large fields (over 8Ha, often much larger) created since the OS 1st edition mapping. These have been formed usually as a result of Post-War agricultural improvements intended to meet the requirements of intensive arable cultivation.	Both
	<b>Drained Wetlands</b>	<b>20</b>	Small or large, irregular or rectilinear fields where most of the boundaries will be defined by the course of drainage ditches, some boundaries may also follow watercourses.	Both
	<b>Medieval Open Fields</b>	<b>4</b>	Areas which are likely to have formed part of medieval open fields suggested through the presence of ridge and furrow earthworks or piecemeal enclosure.	Previous only
	<b>Paddocks and Closes</b>	<b>5</b>	Small and generally irregular fields located on the edge of settlements usually representing small meadows and paddocks.	Both
	<b>Small Assarts</b>	<b>6</b>	Small irregular or rectilinear fields which appear to have been created through woodland clearance. These are usually located close to areas of ancient woodland.	Both
	<b>Large Assarts with Sinuous Boundaries</b>	<b>7</b>	Large irregular or rectilinear fields which appear to have been created through the clearance of woodland. These are usually located close to areas of ancient woodland. This type includes fields that have been created through the post 1880s amalgamation of fields.	Both
	<b>Planned Woodland Clearance</b>	<b>8</b>	Small and large rectilinear or irregular fields typically with straight boundaries that appear to have been created through woodland clearance. These are usually located close to areas of ancient woodland.	Both
	<b>Irregular Squatter Enclosure</b>	<b>9</b>	Small irregular fields usually with an unordered appearance predominantly with sinuous or curvilinear boundaries. They are usually associated with networks of lanes, access tracks or small cottages and quarries, mining or other industrial activity.	Both
<b>Woodland</b>	<b>Common Grazed Woodland</b>	<b>113</b>	An area of woodland that appears to have been used for common grazing. This may have meant opening glades and other areas within the woodland without destroying all the woodland itself. Typically these have been identified as Medieval use of woodland but may have been later.	Previous only

	<b>Broad-leaved Ancient Woodland</b>	<b>21</b>	Woodland designated by English Nature as 'Ancient Semi-Natural' (land that has had continuous woodland cover since at least 1600 AD and may have been managed by coppicing or felling and allowed to regenerate naturally) and identified by the Forestry Commission and the Warwickshire Habitat Biodiversity Audit as being broad-leaved or broad-leaved semi-natural. This will include some of the oldest woodland in the county probably dating back to at least the medieval period.	Both
	<b>Mixed Ancient Woodland</b>	<b>22</b>	Woodland designated by English Nature as 'Ancient Semi-Natural' (land that has had continuous woodland cover since at least 1600 AD and may have been managed by coppicing or felling and allowed to regenerate naturally) and identified by the Forestry Commission and the Warwickshire Habitat Biodiversity Audit as being mixed or mixed semi-natural. This will include some of the oldest woodland in the county probably dating back to at least the medieval period, however some parts may have been planted with coniferous species.	Both
	<b>Replanted Ancient Woodland</b>	<b>23</b>	Woodland designated by English Nature as 'Ancient Replanted' (land that has had continuous woodland cover since at least 1600AD where the original native tree cover has been felled and replaced by planting, usually conifers) and identified by the Forestry Commission or the Warwickshire Habitat Biodiversity Audit as being replanted or containing conifers or young trees. These areas were probably cleared and replanted during the 19th or 20th century.	Both
	<b>Broad-leaved Woods with Sinuous Boundaries</b>	<b>24</b>	Woodland identified by the Forestry Commission and the Warwickshire Habitat Biodiversity Audit as being broad-leaved and which have predominantly sinuous boundaries. Whilst not designated as 'Ancient' woodland these areas may potentially contain fragments of older woodland.	Both
	<b>Mixed Woods with Sinuous Boundaries</b>	<b>25</b>	Woodland identified by the Forestry Commission and the Warwickshire Habitat Biodiversity Audit as being mixed and which have predominantly sinuous boundaries. These areas may represent stands of older woodland colonised by or partially planted with conifers.	Both
	<b>Coniferous Woods with Sinuous Boundaries</b>	<b>26</b>	Woodland identified by the Forestry Commission and the Warwickshire Habitat Biodiversity Audit as being coniferous and which have predominantly sinuous boundaries. In most cases these are likely to represent plantations.	Both
	<b>Broad-leaved Plantation</b>	<b>27</b>	Woodland identified by the Forestry Commission and the Warwickshire Habitat Biodiversity Audit as being broad-leaved plantation. Straight boundary morphology or the wood's name may suggest the plantation originates from the 19th or 20th century.	Both
	<b>Mixed Plantation</b>	<b>28</b>	Woodland identified by the Forestry Commission and the Warwickshire Habitat Biodiversity Audit as being mixed plantation. Straight boundary morphology or the wood's name may suggest the plantation originates from the 19th or 20th century.	Both

	<b>Coniferous Plantation</b>	<b>29</b>	Woodland identified by the Forestry Commission and the Warwickshire Habitat Biodiversity Audit as being coniferous plantation. Straight boundary morphology or the wood's name may suggest the plantation originates from the 19th or 20th century.	Both
	<b>Other Plantation</b>	<b>30</b>	Woodland plantation with no designation and not identified as one of the previous types by the Forestry Commission or the Warwickshire Habitat Biodiversity Audit.	Both
<b>Water and valley floor</b>	<b>Artificial Pond/Lake</b>	<b>109</b>	Generally smaller bodies of water that can be recognised as artificial through the presence of retaining earthworks and/or dams but are not recognised as reservoirs. This will include ornamental lakes, fishponds, flooded quarries and ponds associated with	Both
	<b>Floodplain</b>	<b>31</b>	Areas of land that can be identified as river floodplain but do not fall into one of the fieldscape categories.	Both
	<b>Reservoir</b>	<b>32</b>	Bodies of water that can be recognised as being artificially created generally for the purposes of water supply. These will usually date to the 20th century.	Both
	<b>Natural Open Water</b>	<b>33</b>	Bodies of open water generally over 1ha which have natural origins.	Both
	<b>Moss/Raised Bog</b>	<b>34</b>	Areas of unimproved peatland. The conditions of these environments generally sustain ecologically rich wetland habitats and favour the preservation of organic remains.	Both
	<b>Marsh</b>	<b>35</b>	Areas of land that do not fit into any other categories and have been identified as marsh or marshy grassland by the Warwickshire Habitat Biodiversity Audit or marked as marsh on Ordnance Survey mapping.	Both
	<b>Water Meadow</b>	<b>36</b>	Areas of land identified as floodplain areas and known to be used as meadows fertilized by allowing floodwater to cover it in winter. There are currently no known examples of this type in Warwickshire.	Both
<b>Industrial</b>	<b>Pre-1880s Industrial Complex</b>	<b>37</b>	Areas of industrial activity marked on the Ordnance Survey 1st edition mapping (1880's) and that does not fall into one of the more specific industrial categories.	Both
	<b>Post-1880s/Pre 1955 Industrial Complex</b>	<b>38</b>	Areas of industrial activity marked on the Ordnance Survey 1955 edition mapping but not marked on the Ordnance Survey 1st edition mapping (1880's) and that does not fall into one of the more specific industrial categories.	Both
	<b>Post 1955 Industrial Complex</b>	<b>39</b>	Areas of industrial activity marked on the modern Ordnance Survey mapping but not marked on the Ordnance Survey 1955 mapping and that does not fall into one of the more specific industrial categories. These will generally include modern industrial estates	Both
	<b>Derelict Industrial Land</b>	<b>40</b>	Areas of land that previously were of industrial use and have been cleared but which subsequently have had no development on them.	Both

	<b>Other Industrial</b>	<b>41</b>	Areas of industrial activity that do not fit into any of the other industrial types.	Both
	<b>Waste Tip</b>	<b>42</b>	Areas of land that have been used for the large scale dumping or filling or rubbish. This type will include landfill sites and large domestic rubbish dumps.	Both
	<b>Utility Works</b>	<b>43</b>	Industrial areas that can be identified as related to the utility industry. This type will generally include sewage works, water treatment works, power stations and gas works.	Both
	<b>Brick Works</b>	<b>44</b>	Areas marked on Ordnance Survey maps as brick works.	Both
	<b>Motor Industry</b>	<b>45</b>	Areas of land with industrial activity related to the motor industry.	Both
	<b>Radio/ Tele-communications</b>	<b>46</b>	Areas that are clearly marked on Ordnance Survey mapping as large scale radio/telecommunications works.	Both
<b>Extractive</b>	<b>Lime Works</b>	<b>115</b>	Areas of land that relate to the lime extraction industry.	Both
	<b>Coal Extraction</b>	<b>47</b>	Areas of land that relate to the coal mining industry.	Both
	<b>Sand and Gravel Extraction</b>	<b>48</b>	Areas of land that relate to the sand and gravel extraction industry.	Both
	<b>Hard Rock Extraction</b>	<b>49</b>	Areas of land that relate to the hard rock extraction industry.	Both
	<b>Clay Extraction</b>	<b>50</b>	Areas of land that relate to the clay extraction industry.	Both
	<b>Cement Works</b>	<b>51</b>	Areas of land that relate to the cement industry.	Both
<b>Military</b>	<b>Hostel</b>	<b>114</b>	A military installation used for housing people, it may be temporary or more permanent.	Both
	<b>Barracks/Training Ground</b>	<b>52</b>	Military bases identified from Ordnance Survey mapping.	Both
	<b>Military Depots</b>	<b>53</b>	Military storage facilities identified from Ordnance Survey mapping.	Both
	<b>Military Airfield</b>	<b>54</b>	Military airfield or airbase identified from Ordnance Survey mapping.	Both
<b>Designed landscape (ornamental, parkland, recreational)</b>	<b>Park/Garden</b>	<b>56</b>	Areas identified as parks and gardens from English Heritage's Historic Parks and Gardens Register as well as Ordnance Survey mapping and any evidence from the Warwickshire Historic Environment Record.	Both
	<b>Golf Course</b>	<b>57</b>	Areas identified as golf courses from Ordnance Survey mapping.	Both
	<b>Sports Field</b>	<b>58</b>	Areas identified as sports fields from Ordnance Survey mapping.	Both
	<b>Cemeteries</b>	<b>59</b>	Areas identified as cemeteries from Ordnance Survey mapping, these will generally include the larger municipal cemeteries and not smaller church	Both

			cemeteries.	
	<b>Racecourse</b>	<b>60</b>	Areas identified as animal racecourses from Ordnance Survey mapping.	Both
	<b>Public Open Space</b>	<b>61</b>	Areas of land generally with some degree of landscaping and accessible to the public usually in an urban context. These will mostly be identifiable from Ordnance Survey mapping and the Warwickshire Habitat Biodiversity Assessment's 'Amenity Grassland' type.	Both
	<b>Deer Park</b>	<b>62</b>	Areas of parkland that have been specifically designed for the keeping of deer. Some of these may date back to the medieval period where the prime purpose of these parks was for hunting.	Both
	<b>Country Spa</b>	<b>63</b>	Areas usually in a countryside setting which have been designed and developed specifically as a form of spa or retreat.	Both
<b>Settlement</b>	<b>Historic Settlement Core</b>	<b>64</b>	Areas that can be identified as the historic core of a settlement either through morphology or information from the Warwickshire Historic Environment Record. In most cases these will represent the extent of the settlement at the end of the medieval period.	Both
	<b>Medieval Settlement</b>	<b>65</b>	Areas that have been identified as having a medieval settlement component either through information from the Historic Environment Record or the interpretation of earthworks in the landscape. This category will not necessary include areas of current settlement	Previous only
	<b>Pre 1880s Terraced</b>	<b>66</b>	Areas that are recognised as predominantly terraced housing as marked on the Ordnance Survey 1st edition mapping. In many cases this area will have already been defined as the historic settlement core.	Both
	<b>Pre 1880s Semi-Detached</b>	<b>67</b>	Areas that are recognised as predominantly semi-detached housing as marked on the Ordnance Survey 1st edition mapping. In many cases this area will have already been defined as the historic settlement core.	Both
	<b>Pre 1880s Detached</b>	<b>68</b>	Areas that are recognised as predominantly Detached housing as marked on the Ordnance Survey 1st edition mapping. In many cases this area will have already been defined as the historic settlement core.	Both
	<b>Post 1880s/Pre 1900s Terraced</b>	<b>69</b>	Areas of terraced housing marked on the Ordnance Survey 2nd edition mapping but not on the 1st edition.	Both
	<b>Post 1880s/Pre 1900s Semi-Detached</b>	<b>70</b>	Areas of Semi-detached housing marked on the Ordnance Survey 2nd edition mapping but not on the 1st edition.	Both
	<b>Post 1880s/Pre 1900s Detached</b>	<b>71</b>	Areas of Detached housing marked on the Ordnance Survey 2nd edition mapping but not on the 1st edition.	Both

	<b>Post 1900s/Pre 1955 Terraced</b>	<b>72</b>	Areas of terraced housing marked on the Ordnance Survey 1955 edition mapping but not on the 2nd edition.	Both
	<b>Post 1900s/Pre 1955 Semi-Detached</b>	<b>73</b>	Areas of Semi-detached housing marked on the Ordnance Survey 1955 edition mapping but not on the 2nd edition.	Both
	<b>Post 1900s/Pre 1955 Detached</b>	<b>74</b>	Areas of Detached housing marked on the Ordnance Survey 1955 edition mapping but not on the 2nd edition.	Both
	<b>Post 1955 Terraced</b>	<b>75</b>	Areas of terraced housing marked on the modern Ordnance Survey mapping but not on the 1955 edition.	Both
	<b>Post 1955 Semi-Detached</b>	<b>76</b>	Areas of Semi-detached housing marked on the modern Ordnance Survey mapping but not on the 1955 edition.	Both
	<b>Post 1955 Detached</b>	<b>77</b>	Areas of Detached housing marked on the modern Ordnance Survey mapping but not on the 1955 edition.	Both
	<b>Farm Complex pre 1880s</b>	<b>78</b>	Areas covered by farmhouses and associated buildings marked on the Ordnance Survey 1st edition mapping. These are usually also marked with a farm name.	Both
	<b>Farm Complex Post 1880s/Pre 1900s</b>	<b>79</b>	Areas covered by farmhouses and associated buildings marked on the Ordnance Survey 2nd edition mapping but not on the 1st edition. These are usually also marked with a farm name.	Both
	<b>Farm Complex Post 1900s/Pre 1955</b>	<b>80</b>	Areas covered by farmhouses and associated buildings marked on the Ordnance Survey 1955 edition mapping but not on the 2nd edition. These are usually also marked with a farm name.	Both
	<b>Farm Complex Post 1955</b>	<b>81</b>	Areas covered by farmhouses and associated buildings marked on the Ordnance Survey modern mapping but not on the 1955 edition. These are usually also marked with a farm name.	Both
	<b>Country House</b>	<b>82</b>	Areas of usually isolated settlement in a rural or semi-rural setting often associated with parkland or designed landscapes. In many cases in Warwickshire these will be a named 'Hall' and of 18th and 19th century dates.	Both
	<b>Flats and Apartments</b>	<b>83</b>	Areas marked as multi-storey residential buildings.	Both
	<b>Derelict Land</b>	<b>84</b>	Areas of land that previously was some form or settlement, currently lies unused and does not fit any other HLC category.	Both
<b>Transportation</b>	<b>Major Road Junction</b>	<b>85</b>	Areas of major road junctions and roundabouts over 1ha in size.	Both
	<b>Train Station/Sidings</b>	<b>86</b>	Areas that form train stations and large sidings as marked on modern Ordnance Survey mapping.	Both
	<b>Canal Lock/Basin</b>	<b>87</b>	Canal locks, basins and wharfs as marked on modern Ordnance Survey mapping.	Both

	<b>Civil Airport</b>	<b>88</b>	Airports and airfields that are of civil use. A number of these will have been developed for military use and given over to civil use after the Second World War.	Both
	<b>Motorway Service Area</b>	<b>89</b>	Service areas associated with motorways and marked on modern Ordnance Survey mapping.	Both
	<b>Canal</b>	<b>90</b>	Areas developed and used as artificial waterways. In some cases this will include old canals and canal arms that have become abandoned and disused.	Both
	<b>Motorway</b>	<b>91</b>	Motorways as marked on modern Ordnance Survey mapping. These will all have occurred post 1960 and often dramatically alter the landscape.	Both
	<b>Railway</b>	<b>92</b>	Modern railways as marked on Modern Ordnance Survey mapping. These will often include large areas either side of the railway that was formed as part of the construction process such as cuttings and embankments.	Both
	<b>Disused Railway</b>	<b>93</b>	Areas of land identifiable as a previously active railway line. These disused railway lines are often marked on Ordnance Survey mapping and when not redeveloped retain a specific landscape character.	Both
	<b>Park and Ride</b>	<b>94</b>	Areas marked on modern Ordnance Survey mapping as park and ride schemes. These will often be large car parks and associated areas close to out of town railway stations.	Both
<b>Civic and Commercial</b>	<b>Exhibition/Conference Centre</b>	<b>100</b>	Generally large buildings, stadiums and areas that are primarily used as some form of exhibition or conference centre.	Both
	<b>Camping/Caravan Site</b>	<b>101</b>	Areas of land that are marked as camping and/or caravan sites on modern Ordnance Survey mapping.	Both
	<b>Hotel</b>	<b>102</b>	Generally large hotel complexes that are clearly marked on Ordnance Survey mapping. These are very often found outside or on the edge of major settlements.	Both
	<b>Stadium</b>	<b>110</b>	An area where some form of professional sport is held.	Both
	<b>Municipal and Civic</b>	<b>95</b>	Areas within larger settlements that are defined by the presence of large civic buildings such as town halls, local authority buildings, libraries and museums. In some cases these complexes may also be found out of town.	Both
	<b>Educational</b>	<b>96</b>	Educational establishments including schools, colleges and universities.	Both
	<b>Hospital</b>	<b>97</b>	Areas of large hospital complexes.	Both
	<b>Commercial and Retail</b>	<b>98</b>	Areas of large stores, commercial areas and retail parks marked as such on modern Ordnance Survey mapping. These areas may be found within or on the edge of urban areas.	Both
	<b>Leisure Centre</b>	<b>99</b>	Areas marked as leisure centres, swimming pools or other leisure activity areas on Ordnance Survey mapping.	Both

<b>Orchards and Allotments</b>	<b>Pre 1880s Orchard</b>	<b>103</b>	Orchards marked on the Ordnance Survey 1st edition mapping. These will generally date to post-medieval or 19th century in origin.	Both
	<b>Post 1880s Orchard</b>	<b>104</b>	Orchards that are marked on modern Ordnance Survey mapping but absent from the 1st edition suggesting a more modern origin.	Both
	<b>Pre 1955 Allotment</b>	<b>105</b>	Allotments marked on the 1955 edition Ordnance Survey mapping. These will probably have been laid out prior to or during the Second World War.	Both
	<b>Post 1955 Allotment</b>	<b>106</b>	Allotments marked on modern Ordnance Survey mapping but not on the 1955 edition.	Both
	<b>Nursery/Garden Centre</b>	<b>107</b>	More modern nurseries and garden centres identified from modern Ordnance Survey mapping.	Both

## Historic Landscape Character Attributes

Each of the HLC Broad Types have a series of attributes assigned to them. When an HLC record is created and polygon defined, key characteristics of that area can then be displayed for that record.

<b>Attribute Type Code</b>	<b>Attribute Description</b>	<b>Attribute Value Code</b>	<b>Value</b>	<b>Notes</b>	<b>HLC Broad Type assigned</b>
ENCL	Enclosed	1	Yes		UIM, WAT
		2	No		
Fsize	Predominant Field Size	40	Large	Between 4-8 ha	FSC
		41	Small	Less than 2 ha	
		42	Medium	Between 2-4 ha	
		47	Very Large	Greater than 8 ha	
SHAPE	Field Shape	3	Rectilinear		FSC
		4	Irregular		
PMOR	Predominant Primary Boundary Morphology	5	Straight		FSC, WDL
		6	Sinuous		
		7	Curvilinear		
SMOR	Predominant Secondary Boundary Morphology	10	Curvilinear		FSC
		24	None		
		8	Straight		
		9	Sinuous		
IMOR	Internal Boundary Morphology	11	Dog-leg		FSC
		12	Reverse S Curve		

		13	Following Water Course		
		14	Co-axial		
		25	None		
EMOR	External Boundary Morphology	15	Sinuuous		FSC
		16	Following Settlement Edge		
		21	Following Line of Transportation		
		22	Woodland		
		23	None		
		62	Following Administrative Boundary		
		65	Following Water Course		
STATU	Status	17	Active		IND, EXT, MIL, TRA
		18	Inactive		
		39	Abandoned		
		61	Derelict		
		66	Unknown		
SETLA	Settlement Layout	67	Farm: Linear Plan		SET
		68	Farm: 'L' Plan		
		69	Farm: Dispersed Plan		
		70	Farm: Loose Courtyard Plan		
		71	Farm: Regular Courtyard 'L' Plan		
		72	Farm: Regular Courtyard 'U' Plan		
		73	Farm: Regular Courtyard 'E' Plan		
		74	Farm: Full Regular Courtyard Plan		
		75	Farm: Irregular		
		76	None		
		77	Urban: Linear		
		78	Urban: Dispersed/Scattered		
		79	Urban: Irregular		
		80	Urban: Organic Plan		
		81	Urban: Planned Layout		
ELEV	Elevation	19	High Ground		UIM
		20	Low Ground		

LOSS	Percentage of Fields Lost Since Os 1st edition	26	0%		FSC
		27	10%		
		28	20%		
		29	25%		
		30	30%		
		31	40%		
		32	50%		
		33	60%		
		34	70%		
		35	75%		
		36	80%		
		37	90%		
		38	100%		
		64	Gain	A gain of fields since the OS 1st edition.	
BLOSS	Percentage of Boundary Loss since OS 1st edition	48	0%		FSC
		49	10%		
		50	20%		
		51	25%		
		52	30%		
		53	40%		
		54	50%		
		55	60%		
		56	70%		
		57	75%		
		58	80%		
		59	90%		
		60	100%		
		63	Gain	A gain of field boundaries rather than a loss.	
ON1ED	On 1st Edition OS Mapping	45	Yes		WDL
		46	No		

### ***Rule-Based Determination of HLC Types***

Within the HBSMR HLC module it is possible to use rule-based determination of HLC types based on the Attributes, Previous Types and Period information entered for each HLC area. Parameters are defined against which each HLC record is tested, if the data collected for an HLC record matches these parameters they can then automatically be assigned the correct HLC Type.

Use of rule-based determination has been experimented with for the Warwickshire HLC but it was felt this systemises the process of HLC taking the level of control

away from the person carry out the HLC process essentially disconnecting them from the landscape. It is felt that with rule-based determination you are more inclined to fit landscapes into the rules you create rather than understand the Historic Landscape that exists. For these reasons it was decided not to use the rule-based determination option for the Warwickshire HLC.

## Record Creation

### Main Form

**Warwickshire HBSMR**

**Historic Landscape Character** HWA510

**Broad Type:** Fieldscapes **Full Type Code:** FSC-16

**HLC Type:** Planned Enclosure **Confidence:** Probable

**Name:**

**Configuration:** Broad Types / HLC Types Attributes HLC Rules

**Description** Attributes Previous Types Monuments Sources

**HLC Description**

**Summary:** These areas with good ridge and furrow survival show a previous openfield pattern that has subsequently been enclosed in a formal organised manner. Note that the field pattern often reaches up to the settlement edge.

**Period of Origin of Current HLC Type**

Unknown	From	Conf To	Conf	From Period	To Period	User Defined
<input type="checkbox"/>		1884 AD			Imperial	<input checked="" type="checkbox"/>

**Period:** Unknown to Imperial

**Description:**

**Centroid NGR:** Centroid SP 4758 8150 (MBR: 967m by 712m) **Map:** SP48SE **Area (Ha):** 31.90

**Photo Library:** **Associated Files:** 0 **Map:** XY

To create a record, first open the HLC module part of the HBSMR Software.

It is usual to go to the GIS and look at most of the core sources before adding a new record. This way the HLC type and details about the HLC area will be established and the information can be easily added.

Once a distinct HLC area has been identified a new record can be created by clicking on the new record button in the top right hand area.

A UID number is assigned automatically with the prefix HWA

Next the HLC Broad Type needs to be assigned from the drop down list. Following this the HLC Type can be assigned.

When this information has been added the Full Type Code (on the right hand side) is automatically generated.

The confidence level can be chosen from a drop down list. This list can be defined by the user but has been left as Certain, Probable or Possible. The idea is this goes to

inform how confident the creator of the HLC record is with the HLC Broad Type and HLC Type that have been assigned. For example there may be cases that a fieldscape area appears to have the character of Planned Enclosure but the confidence of this may only be 'probably' rather than 'certain' due to the evidence available.

A name can be assigned for each HLC record. Generally a rule has been adopted where if the HLC area being added has a known name (such as Piles Coppice for a woodland) then this should be recorded. Also where a sensible name can be defined such as 'Historic Core of Stratford-upon-Avon' then this can be added. However, there are many cases where Fieldscares and other HLC Types can prove very difficult in naming. The attributes, summary and description are recorded elsewhere and it is felt these should not be replicated in the name therefore the policy has been not to invent names that provide no real relevance or do not add any information to the record. These rules may need to be reviewed in light of thinking about the final users of the HLC.

Below these fields are a series of tabs and each one of these will be dealt with in turn.

### **Tab 1 (Description)**

Here the summary is first added followed by a more detailed description below this, both in free text fields. It has been found that for most of the time the length of the summary field is sufficient to fulfil the level of detail required. The type of information recorded is usually additional information that cannot be understood from other parts of the HLC record. In some cases an explanation of why a certain type was chosen or further detail on particular characteristics will be noted. These fields have been optional fields filled in at the discretion of the HLC officer, however after consultation with the Warwickshire Historic Environment Curatorial team (Planning/HER) it was felt that the Summary field needed to be mandatory and that it should reflect a concise summary of the record at a level easily understood from users who may only be viewing the records through the GIS with limited details and fields available. It was felt that end users may not be able to understand or use the data effectively especially if the HLC is to have a life beyond this project. It was agreed to start doing this in Stage 2 of the Warwickshire HLC project and observe if any serious time implications occurred as a result of this.

In the Description tab the period of origin for the Current HLC Type is also added. Here the more accurate the dating the better and often this will involve the dates of the sources used to determine the HLC type. The period is entered and stored in the same way as Period information elsewhere in the HBSMR and uses the same look-up table.

At this point the polygon is usually added through the GIS by clicking on the 'globe' button. This can of course be done at any time once the record has been created and has a UID number.

Spatial information, shown just below the tabs, is automatically extrapolated from the GIS.

To use the GIS link effectively in the HBSMR for the Warwickshire HLC project it was necessary to tweak the HBSMR software and how it loaded the GIS. This was so that the GIS loads all the right layers and is personalised for how the person carrying out the HLC wants. To do this first a MapInfo workspace has to be created that the user is happy with. Then the HBSMR shortcut has to be altered to point to an alternative HBSMR.ini file which in turn points to the specific MapInfo workspace.

For example the HBSMR shortcut icon was copied and the copies properties were changed. The target field was changed to:

```
"C:\Program Files\Microsoft Office\OFFICE11\MSACCESS.EXE" /wrkgrp
"\Lh-nwvs1\LHSHARE1\BU\HCSMuseumFieldServices\SMR\HBSMRv3\Warks\mdb
\smr3sys.mdw"
"\Lh-nwvs1\LHSHARE1\BU\HCSMuseumFieldServices\SMR\HBSMRv3\Warks\mdb
\HBSMR.mdb" /cmd G:\HBSMR.ini
```

Basically this opens Microsoft Access (in this case held on the C drive) then opens the HBSMR (smr3sys.mdw and HBSMR.mdb) and then uses a personalised INI file (G:\HBSMR.ini)

In the HBSMR.ini file a different MapInfo workspace is referenced in the [MapModule] section rather than the standard one. The workspace referenced is:

```
Workspace=H:\Confidential\HCSMuseumFieldServices\SMR\HLC\GIS\Workspaces\
HLC.wor
```

**Tab 2 (Attributes)**

The screenshot shows the 'Warwickshire HBSMR' application window. The title bar reads 'Warwickshire HBSMR'. The main window has a blue header with 'Historic Landscape Character' and a dropdown menu showing 'HWA510'. Below the header, there are several input fields: 'Broad Type:' with a dropdown set to 'Fieldsapes', 'HLC Type:' with a dropdown set to 'Planned Enclosure', 'Name:' with an empty text box, 'Full Type Code:' with a dropdown set to 'FSC-16', and 'Confidence:' with a dropdown set to 'Probable'. Below these fields is a 'Configuration' section with tabs for 'Broad Types / HLC Types', 'Attributes' (which is selected), and 'HLC Rules'. The 'Attributes' tab shows a list of attributes with dropdown menus and 'Clr' buttons. The attributes are: 1: Predominant Field Size (Medium), 2: Field Shape (Rectilinear), 3: Primary Morphology (Straight), 4: Secondary Morphology (None), 5: Internal Morphology (None), 6: External Morphology (Following Settlement Edge), 7: Field Loss (Since 1st Ed) (30%), and 8: Boundary Loss (25%). Below the list is a 'Clear All Attributes' button. At the bottom of the window, there is a status bar with 'Centroid NGR:' (Centroid SP 4758 8150 (MBR: 967m by 712m)), 'Map:' (SP48SE), 'Area (Ha):' (31.90), and a 'Photo Library:' button. The bottom of the window also has a toolbar with various icons for navigation and editing.

In this tab the attributes linked to the selected HLC Broad Type will be displayed. The values for each attribute can be selected from the drop down lists. The use of attributes helps maintain objectivity and consistency when it comes to assigning HLC Types.

**Tab 3 (Previous Types)**

Warwickshire HBSMR

Historic Landscape Character HWA510

Broad Type: Fields

HLC Type: Planned Enclosure

Name:

Full Type Code: FSC-16

Confidence: Probable

Configuration: Broad Types / HLC Types Attributes HLC Rules

Description Attributes Previous Types Monuments Sources

HLC Previous Types

Previous Broad Type	Previous HLC Type	Period	Confidence	Notes
Fields	Medieval Open Fields	Medieval - 1066 AD to 1539 AD	Certain	Good ridge and furrow survival.
*				

Centroid NGR: Centroid SP 4758 8150 (MBR: 967m by 712m) Map: SP48SE Area (Ha): 31.90

Photo Library: Associated Files: 0 Map: XY

In this tab the former Historic Landscape Character is recorded. Multiple previous HLC types can be recorded for each HLC record. This is normally determined from such sources as historic mapping and the HER.

Like the main record the Previous Broad Type and Previous HLC Type along with the confidence level, dating and notes are added. As an example an HLC record may exist that has been recorded as Very Large Post-war fields, information from the HER and the shape of the fields on the OS 1<sup>st</sup> edition suggests that ridge and furrow existed in the same area. The previous Broad Type would then be fieldscape with HLC Type of Medieval Open Fields, the confidence could be Probable and the dating would be the medieval period. Further notes could be added to help show how this was determined.

In some cases it will not always be possible to determine a previous landscape character and this part of the record may be left blank.

## Tab 4 (monuments)

**Warwickshire HBSMR**

**Historic Landscape Character** HWA510

**Broad Type:** Fieldscapes **Full Type Code:** FSC-16

**HLC Type:** Planned Enclosure **Confidence:** Probable

**Name:**

**Configuration:** Broad Types / HLC Types Attributes HLC Rules

**Description** **Attributes** **Previous Types** **Monuments** **Sources**

**Associated Monuments** Get from GIS

ID	Record Type	Name	View
▶ 9572	= Monument	Pailton Medieval Settlement	→
The possible extent of the medieval settlement based on the Ordnance Survey map of 1886 and on aerial ph			
* [ ]	= [ ]	[ ]	→

**Centroid NGR:** Centroid SP 4758 8150 (MBR: 967m by 712m) **Map:** SP48SE **Area (Ha):** 31.90

**Photo Library:** **Associated Files:** 0 **Map:** XY

In this tab the known HER monuments in the area are recorded.

Once a polygon has been defined then clicking on the red 'Get From GIS' button will automatically check in the GIS which monument records fall within or intersect the HLC record polygon. The associated monument data is then added automatically including a direct link so that the HLC record will be seen in the relevant monument records.

Particular monuments can be linked manually if needed

## Tab 5 (sources)

Warwickshire HBSMR

**Historic Landscape Character** HWA510

**Broad Type:** Fieldscapes **Full Type Code:** FSC-16

**HLC Type:** Planned Enclosure **Confidence:** Probable

**Name:**

**Configuration:** Broad Types / HLC Types Attributes HLC Rules

**Description** Attributes Previous Types Monuments **Sources**

**Associated Sources**

ID	Specific Reference	View
SWA19479	Map: Ordnance Survey, 1884-1892, 1st edition 6" to 1 mile	+
SWA19482	Map: Ordnance Survey, 2000?, Ordnance Survey 'Landlines' Modern Digital Mapping	+
SWA19490	Cartographic materials: ?, ?, Ridge and Furrow Map (Midlands Open Fields Project)	+
*		+

**Centroid NGR:** Centroid SP 4758 8150 (MBR: 967m by 712m) **Map:** SP485E **Area (Ha):** 31.90

**Photo Library:** **Associated Files:** 0 **Map:** XY

In this tab the relevant sources used to determine the HLC record are recorded.

Like the monument tab particular source records from the Source Module of the HBSMR can be linked to the HLC record.

## Pilot Study

A pilot study took place as part of the first stage of the Warwickshire HLC Project. This was designed to test the methodology defined in the project design and to become more familiar with the HBSMR HLC Module.

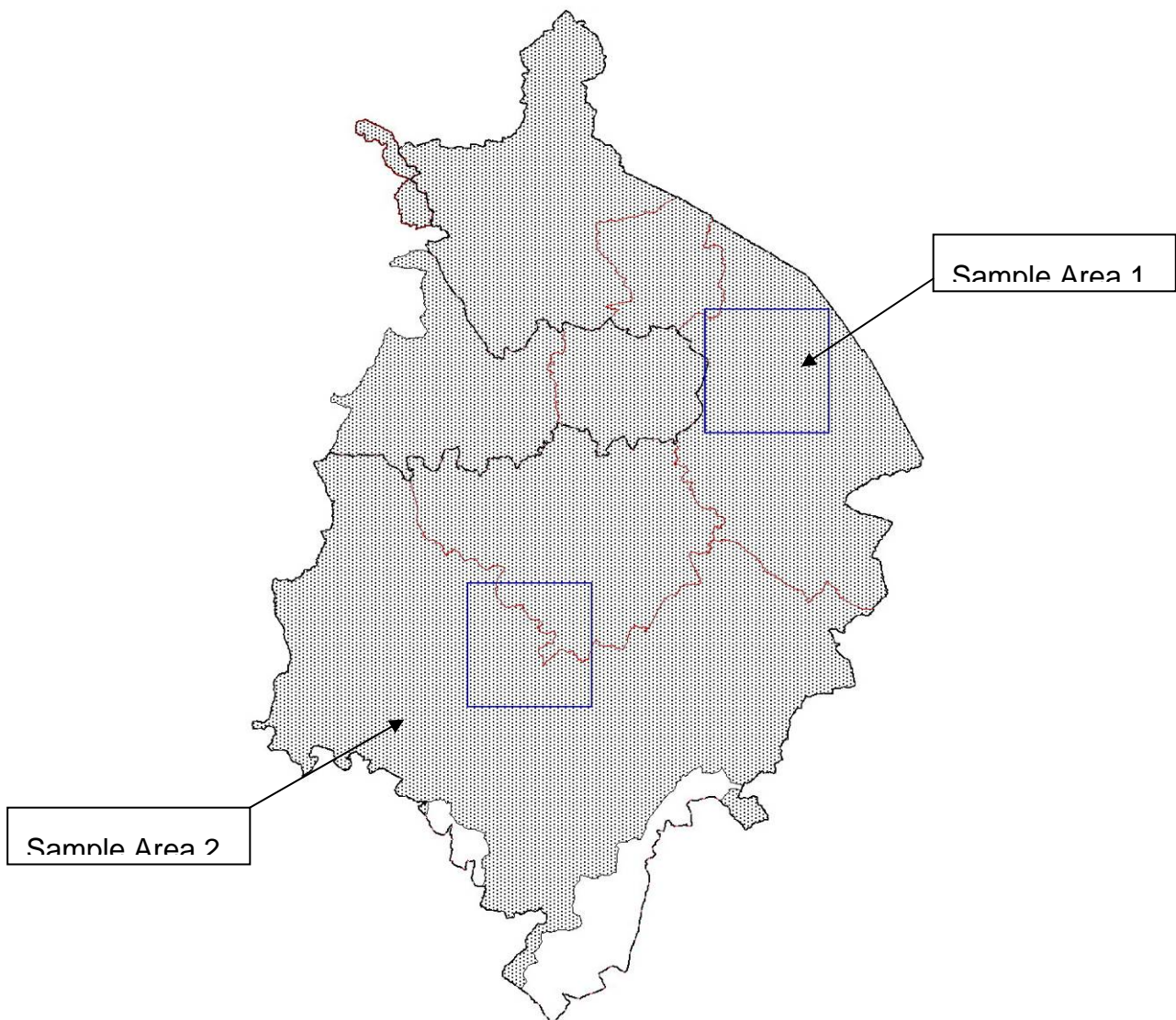
### *Pilot Sample Areas*

Two 10,000 ha pilot sample areas were chosen in areas that it was felt would test the methodology against most of the main Landscape Character Areas identified by the Warwickshire Landscape Guidelines.

These were:

Sample 1 just to the northwest of Rugby and east of Coventry, taking in parts of the Dunsmore and High cross plateaux.

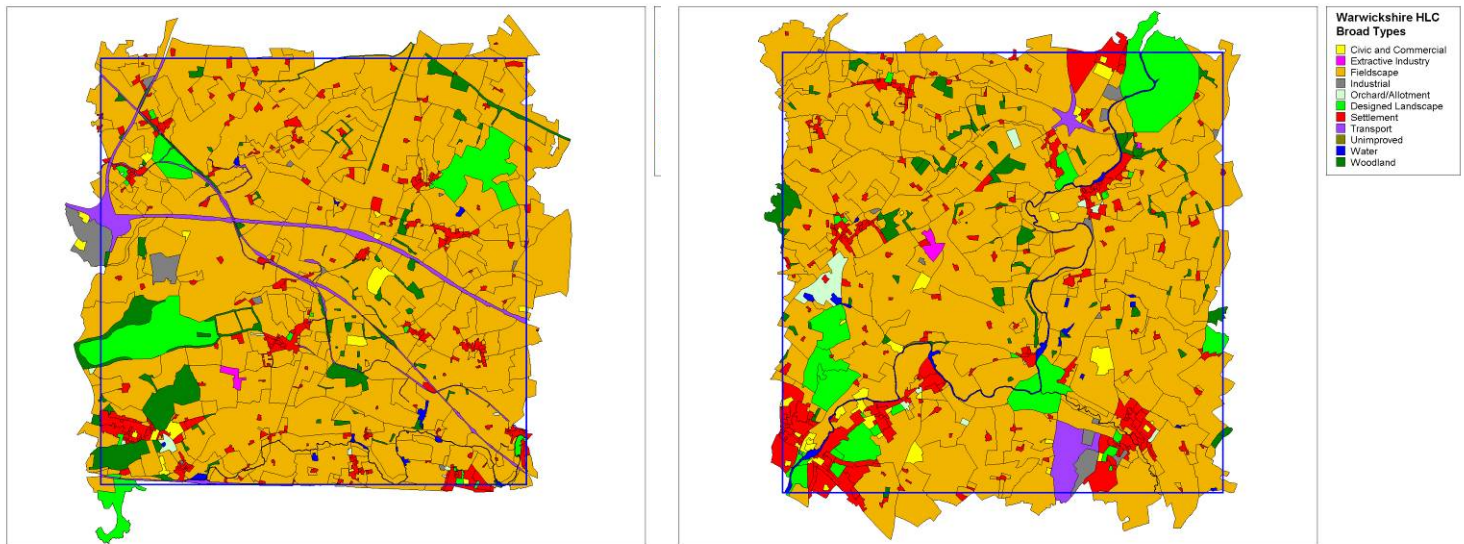
Sample 2 just to the south of Warwick and north and east of Stratford, which takes in parts of the Feldon, Avon Valley and Arden character areas.



## Experiments

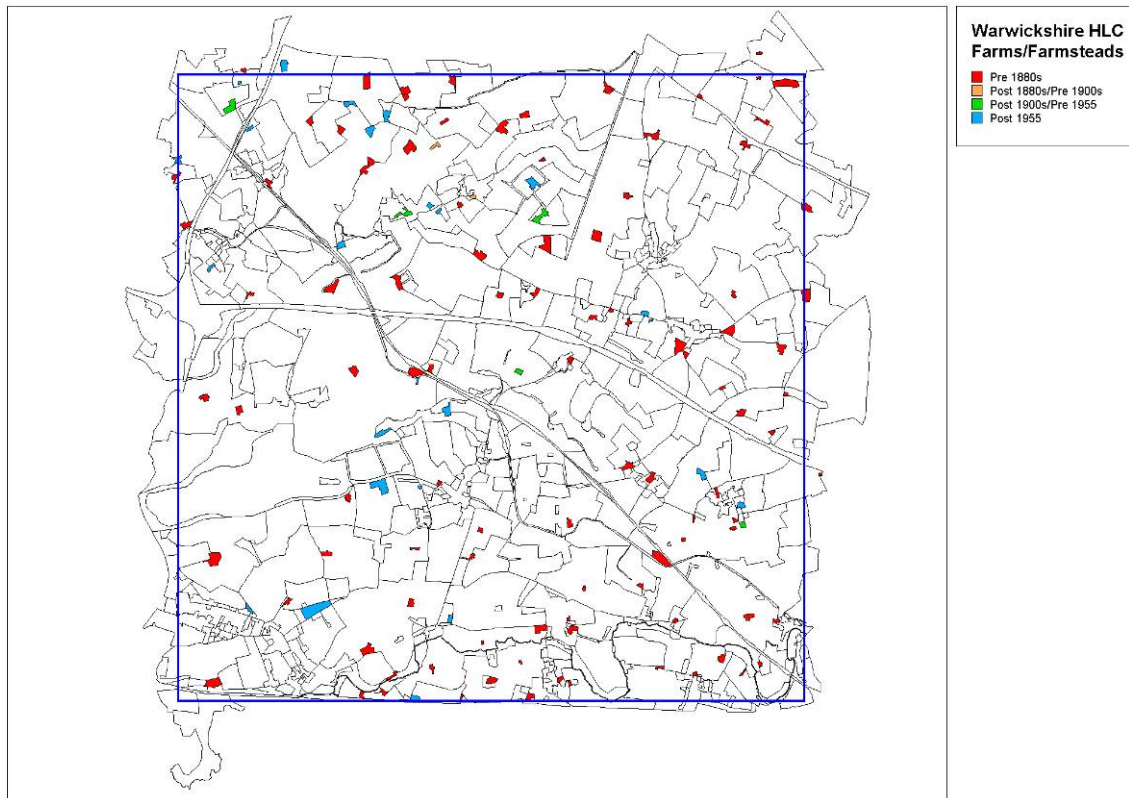
Some ideas and experiments in Historic Landscape Characterisation were trialled as part of the pilot phase. The first of these was in one sample area to map polygons and produce HLC records for large linear transportation features such as Motorways, Railways and Canals. These were not mapped in the second sample area so that a comparison could be made between the two. In most other HLCs these types of features are generally not mapped usually arguing that they are too small, not part of the Historic Landscape Character or on modern mapping anyway. For the Warwickshire HLC it is argued though that they are part of the make up of the Landscape and that they have had a big impact on Historic Landscape Character itself. A large motorway or railway carving through an old field system has changed the character of the landscape dramatically.

After presenting the results and in discussion with the Warwickshire HLC Project Team it was felt that the large linear features did add to the HLC project and were worthwhile including in the whole project area and as such will be mapped in the second sample area and throughout the rest of the project.



A second idea was to map any farms or farmsteads that were identified in the landscape. Generally these are smaller than 1 ha in size and as such are not usually included in HLCs. With Warwickshire being a predominantly rural county it was felt these were an intrinsic part of the landscape despite their small size, not only this but they can add information about the landscape or fieldscape around them that cannot be found elsewhere. The farms were mapped at a very basic level with just their immediate area around the farm buildings recorded along with their approximate period and name. At a later stage farm layout types were added as values in the attributes tab and although out of the scope of this project it is felt that this information can be added to records at a later date.

After some debate it was felt that the farms do add an extra dimension to the Warwickshire HLC and will prove useful in possible future projects when the Warwickshire HLC has taken place.



### ***Results of Pilot Study:***

- **22,100** Hectares Characterised (10.2 % of total project area 216,994 Hectares )
- **1411** HLC records created
- **32** Potential new archaeological sites located
- **24** HER Record updates noted

Some preliminary analysis was carried out on the pilot areas. For example with the first sample area we can compare the results determined so far to other landscape characterisation. Below is a map of the area with the HLC types displayed, the line across the middle marks the division of the very broad Landscape Character Areas. To the north is the High Cross Plateau, to the South is the Dunsmore Character area. Although the results of the HLC do not appear to match the division there are some broad characteristics that show a difference between the two identified character areas:

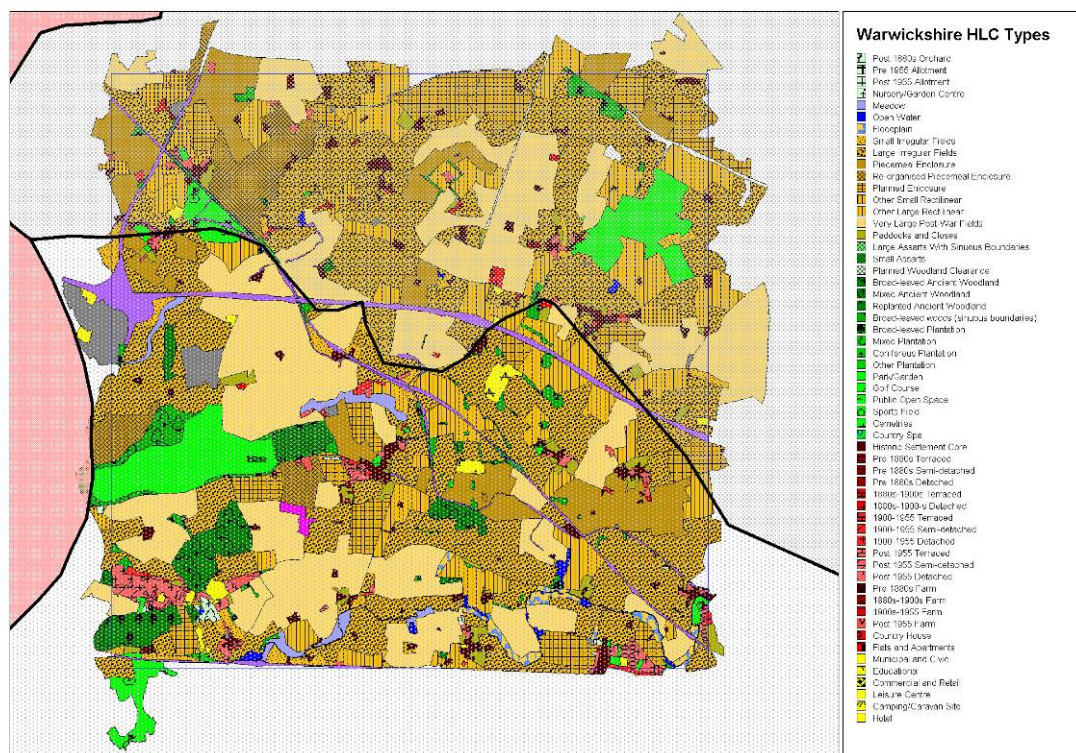
#### **In the Northern part of pilot 1 (High Cross Plateau):**

- More scattered farms and small villages usually of pre 1880's foundation and with relatively little expansion

- Very small infrequent scattered areas of woodland
- Some large parks and gardens
- Very mixed field patterns with equal amounts of older piecemeal enclosed fields, 18th-19th century planned enclosure and more modern very large fields

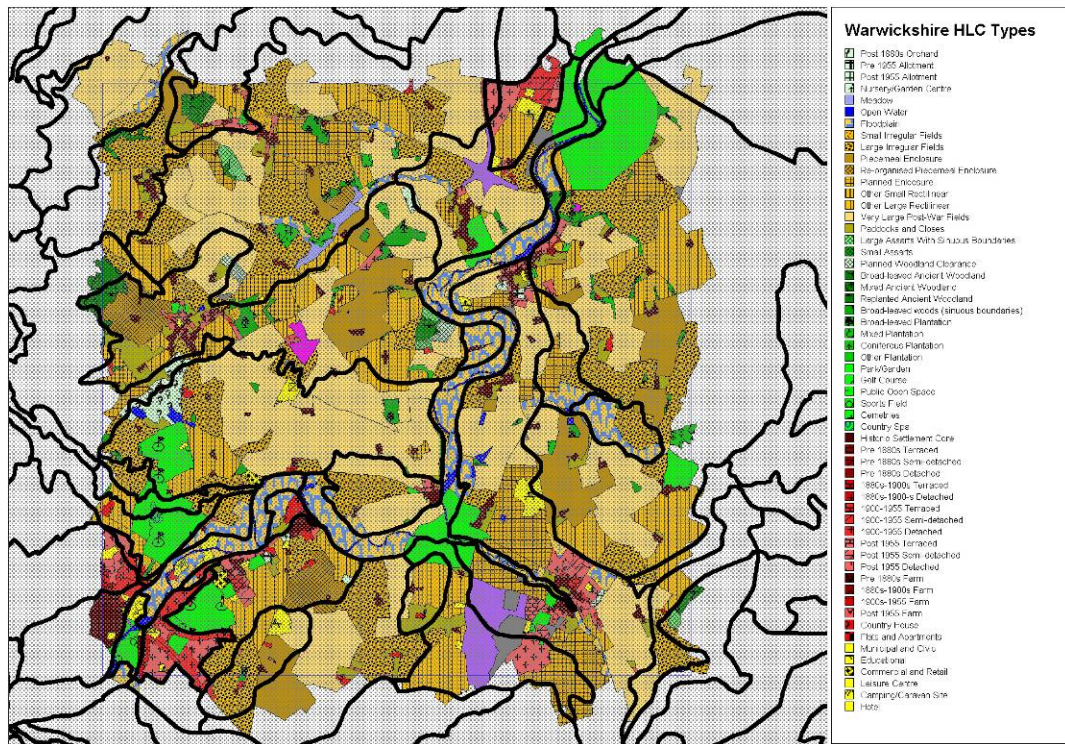
### Southern part of pilot 1: (Dunsmore)

- More woodland with more 'ancient woodland' in larger groupings. Also much more land cleared of woodland
- Larger villages with more post 1880's expansion
- Less frequency of scattered farms
- Large linear dominating transport links (M6, Railway, Canal)
- On edge of large urban areas with creeping urbanisation
- More industrial areas
- Large amount of post-war very large fields



We can also compare the results of the HLC to the Warwickshire LDUs. If we look at the area for the second pilot we can see the LDUs outlined in black to compare with the HLC areas. There are some areas of obvious agreement such as the floodplain

of the Avon, also the urban area of Bridge Town and some of the fieldscape HLC areas match with LDUs too.



## Stakeholder forum

As part of the first stage of the Warwickshire HLC it was decided to form a group of key stakeholders and to have a Stakeholder Forum meeting to launch the start of the Warwickshire HLC. The stakeholder group was formed with those who it was felt would either benefit from the Warwickshire HLC, may have an interest in the broad theme of the project or who may want to provide some input to the project itself.

The Stakeholder Forum meeting took place on October 6<sup>th</sup> 2006 and was very well received with positive comments and useful input from the attendees at the end of the session. Comments included:

- A Discussion on the pilot areas chosen for the Warwickshire HLC.
- The fact that HLC needs to be part of planning policy for it to fulfil its objectives.
- Some districts would welcome HLC into Local Development Frameworks and planning policy but were worried about how this would be achieved.
- Other HLC projects that have already been finished offered help and advice on possible outputs for HLC and for forthcoming HLC projects such as Worcestershire.
- Warwickshire County Council is looking to update the Warwickshire Landscape Guidelines with information from the Warwickshire HLC project.
- Web-based delivery for HLC was discussed.

Another Stakeholder Forum Meeting has been suggested when Stage 2 (main characterisation phase) has been carried out.

## Presentation of Outputs

The outputs of the Warwickshire HLC project need to be further refined but a preliminary list of identified possible outcomes as well as ways to deliver these are listed below.

Outcome	Possible Delivery
Updating and forming part of the Historic Environment Record	Through use of the HBSMR software and informing HER staff of any changes needed.
Updating and forming an additional dataset for use with the Habitat Biodiversity Audit	Through allowing sharing of the Warwickshire HLC dataset to the HBA partnership.
To inform Natural England's Farm Environment Plan, Higher Level Scheme and other agri-environment schemes	By forming part of the Warwickshire and Solihull HERs and being available to curatorial archaeological staff who deal with these enquiries.
To inform historic environment advice given to local authorities in Warwickshire and Solihull	By forming part of the Warwickshire and Solihull HERs and being available to the Planning Archaeologist.
To form source of information for research purposes	By forming part of the Warwickshire and Solihull HERs and being available to the public and academics. Possibly look at informing research staff and academics of availability of information.
Partnership with other local authorities and agencies	To be determined.
Form evidence base for LDFs	Through use by local authorities.
To add/form part of supplementary planning guidance	To be determined.
To support strategic planning	To be determined.

## Appendix

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## ***Members of the Stakeholder Forum***

### **Warwickshire County Council:**

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- Emma Jones
- Nick Palmer
- Helen Maclagan
- Carol Thorne
- David Lowe
- Ian Grace
- Jim Davies
- Councillor Colin Hayfield
- Charlotte Johnston
- Tony Lyons
- Andy Cowan (Head of Planning, E&E)
- Ron Williamson (Head of Resources, AH&CS)
- Charlotte Cox (Rural Estates Manager)
- David Curle
- Steve Smith (Director of Property)
- Cllr Martin Heatley who is HE Champion
- WCC Carolyn Cox
- WCC Lucy Hill
- Ken Martin (HBA)

### **English Heritage**

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- Ian George
- Amanda Smith

### **Solihull MBC**

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**Natural England**

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**Others:**

- Della Hooke
- Stephen Warnock
- Dr Sarah Wager
- Terry Slater
- Prof Chris Dyer

## Appendix4: Warwickshire HER Data Licence Agreement

### LICENCE AGREEMENT FOR USE OF WARWICKSHIRE COUNTY COUNCIL HISTORIC ENVIRONMENT RECORD DATA

#### Parties

This Licence is made between:

WARWICKSHIRE COUNTY COUNCIL (“the Licensor”) (1) and

..... (“the Licensee”) (2)

#### 1. Definitions

- 1.1 “WCC” shall mean Warwickshire County Council
- 1.2 “HER” shall mean the Warwickshire County Council  
Historic Environment Record (including Historic  
Landscape Character information)
- 1.3 “WCC dataset” shall mean data or information extracted from the  
HER and provided to the Licensee in electronic or  
written form

#### 2. Licence

The Licensor hereby licences the use of the information from the HER for the Parish(es) or area of ..... in electronic or paper format subject to the following terms and conditions:

#### 3. Restrictions on Use

- 3.1 This Licence agreement authorises the Licensee to use the WCC dataset solely for their internal business purposes or personal interest. The WCC dataset is not to be used by the Licensee to provide a service to a third party or for the benefit of a third party. The WCC dataset must not be reproduced, copied, sub-licensed, passed, sold, demonstrated, lent, or otherwise transferred in data or written form by the Licensee to the third party without the prior written consent of the Licensor.
- 3.2 For clarification, this License agreement does not include the following:
- 3.2.1 the reproduction and use of the WCC dataset outside of this licence;
- 3.2.2 the incorporation of the WCC dataset in a third party product;
- 3.2.3 the development of value added products using the WCC dataset;

- 3.2.4** the demonstration of the WCC dataset at exhibitions or seminars;
- 3.2.5** the transfer of the WCC dataset into any other computer readable form; or
- 3.2.6** the digitising or scanning of the WCC dataset.

#### **4. Accuracy**

The Licensor makes every attempt to maintain the accuracy of the information contained within the HER but this cannot be guaranteed as the data has been compiled from diverse sources (often unchecked) over many years. The HER continues to develop as new or revised information is included. Information provided in the HER is therefore not definitive and reflects the state of the records on the date the information was extracted. The Licensor shall be under no further liability in respect of any error, mis-statement or negligence to the Licencee in respect of the information contained within the HER.

#### **5. Termination**

The Licensor reserves the right to terminate this licence upon 24 hours written, verbal or electronic communication to the Licencee, if the Licencee is found to be in breach of any of the terms of this Licence. All data, CD Roms or diskettes must be returned to the Historic Environment Record of WCC within 3 working days of the Licence being terminated in this manner. All copies of the WCC dataset and any paper copies must be destroyed.

#### **6. Commencement Date**

The effective date of this Licence is the .... day of ..... 20.. and it shall remain in full force and effect until the .... day of ..... 20.. unless terminated earlier in accordance with the provisions of this Agreement.

#### **7. Archaeological sites**

- 7.1** The information in the HER should not be used for purposes which damage archaeological sites, historic buildings and landscapes.
- 7.2** The inclusion of an archaeological feature in the HER does not imply any right of public access to that archaeological feature.

#### **8. Liability**

In no event shall the Licensor be liable for any direct, indirect, special, consequential, or any damages or loss whatsoever arising out of use of the information contained in the WCC dataset.

## 9. Law

This Licence agreement shall be governed by English law and subject to the jurisdiction of the English courts.

## 10. Assignments

The Licensee shall not be entitled to assign the whole or any part of the benefit of this Licence agreement, or any obligation under it, without the prior written consent of WCC, which shall not be unreasonably withheld.

In order to register your use of the WCC dataset, please complete the licence details below, keep a copy and return this completed original schedule to:

Historic Environment Record

Warwickshire Museum

Field Services

The Butts

Warwick, CV34 4SS

**I hereby agree to the terms of this Licence** (please sign and print name):

Licensee's name:

Licensee's address:

**Note:** This information may be held by Warwickshire County Council for the purpose of ascertaining how many licences have been granted. Personal information will be treated strictly in accordance with the Data Protection Act 1998.