

**Lowland wet grassland
resource survey: module 2**

Volume 1: Biota reference inventory - West Midlands Region



English Nature Research Report

Number 149
Lowland Wet Grassland
Resource Survey: Module 2

Volume 1: Biota Reference Inventory:
West Midlands Region

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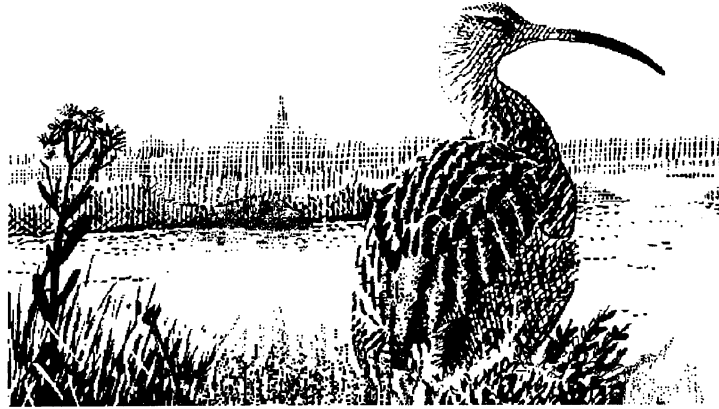
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LOWLAND WET
GRASSLAND



R E S O U R C E S U R V E Y

RESOURCE DISTRIBUTION & BIOTA
REFERENCE INVENTORY

WEST-MIDLANDS REGION

A REPORT TO ENGLISH NATURE
CONTRACT No. F72-08-18
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LOWLAND WET GRASSLAND IN ENGLAND RESOURCE DISTRIBUTION AND BIOTA REFERENCE INVENTORY

WEST MIDLANDS REGION

Background

Lowland wet grasslands occur widely in England, supporting diverse communities of plant and animal species. The broad definition used here of this habitat is: *"managed land, periodically inundated by water, predominantly of permanent grassland and fen meadows within a flat area with a network of ditches containing standing water. Such areas may also include some wetter emergent swamp communities, but not extensive areas of emergent hydrophytes (e.g. Typha and Phragmites). Lowland wet grasslands, including grazing marshes, normally occur in lowland river valleys and behind sea defences. Salt marshes are not included."* Such grasslands are especially notable for vascular plants, birds (particularly waders and wildfowl) and invertebrates of ditches and ditch margins. They are thus of considerable nature conservation value.

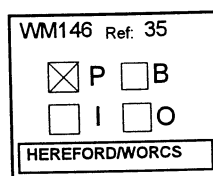
The extent and nature conservation value of lowland wet grassland has been dramatically reduced over the last 30 years, principally by agricultural intensification. There is a reasonable documentation of the extent and nature conservation interest for the larger areas of coastal grazing marsh and river valley grassland but, at an all-England scale, there are major gaps in basic information on the distribution, extent and nature conservation interest of wet grassland. This volume is part of a resource survey project which maps all areas of probable lowland wet grassland exceeding 10 hectares in England (Module 1: Year 1 1992/93; Dargie 1993) and collates information on grassland biota as an inventory (Module 2: Year 2 1993/94; Dargie, Dargie & Tantram 1994). Results are to be used in developing a national strategy for the conservation of lowland wet grassland.

Maps

Maps in this volume record the distribution of numbered lowland wet grassland blocks in 10 km squares of the National Grid. If information on the biota of a lowland wet grassland block (e.g. Phase 2 grassland survey; botanical surveys of ditch systems; breeding, wintering and passage bird surveys and/or data; aquatic and terrestrial invertebrate surveys) has been recorded since 1979 then a label indicating block number, information reference code, type of information and county is added at the base of a map. A regional reference map with a 10 km grid acts as a key to the 10 km map set and is placed at the front of all map detail.

Labels

The format for a label contains a grassland block reference code (eg SW103, block 103 in South-West Region), a bibliographic code (eg Ref. 194, reference numbered 194 in the regional bibliography), boxes indicating the type of information held for that block/reference combination (P, plant; B, bird; I, invertebrate; O, other; the symbol X is used to mark the type of information), plus the county of the block (for blocks straddling more than one county, the name of the county containing the largest proportion of block area). This format was adopted to give at-a-glance understanding of information availability for a dataset involving several hundred references, several thousand blocks, and multiple attributes for each references/block combination. An example of a single label is given below.



Biota reference inventory

Following the maps there is a bibliographic inventory of surveys and survey data, including the location of survey reports and data. Each bibliographic entry has a reference number which is the position of entry of the source in the national inventory set. The grassland block and information reference numbers act as cross-references between the map sheets, labels and bibliographies for each region. Labels and bibliographies have been generated from a comprehensive relational PARADOX database, set up to receive details on all reports and data sets reviewed in the 1993/94 exercise and to match this information with grassland block detail recorded in 1992/93. The PARADOX database is lodged with English Nature at Peterborough.

Wet grassland block database

The blocks for each region are appended to regional reports. The bulk of this information was included in the 1992/93 report but literature searches and fresh map information produced a small number of extra blocks in 1993/94. Details for new blocks have been added to the relevant regional information.

Mapping grassland blocks

The core of this project is a large set of wet grassland blocks mapped at 1:50,000 scale. These blocks form the spatial referencing system which underpins mapping and the selection of references upon wet grassland biota. It is therefore important to understand the basis by which lowland wet grassland blocks have been identified and mapped in this project. The blocks have been located using Phase 1 habitat survey, SSSI habitat maps and air photo interpretation as sources for grassland, plus Ordnance Survey maps showing relief and ditch networks. The approach is based on a pilot exercise operated in South-East Region in 1991/92 (Dargie, 1992). It was modified slightly and refined in 1992/93 as an all-England project, marking grassland blocks on 1:50,000 Ordnance Survey outline map sheets (Dargie, 1993). This form of spatial archiving was cumbersome and in 1993/94 copies were made of 1:50,000 outline maps, cutting these into a set of 10 km squares containing grassland blocks. A set of mounted but unbound 10 km squares, plus regional maps, is deposited at English Nature headquarters in Peterborough. The original 1:50,000 OS outline map sheets are also held at Peterborough.

It is important to realise that the maps are only indicative in character. The boundaries marked must not be accepted as definitive in character due to difficulties encountered in producing maps in 1992/93. Problems included Phase 1 survey results which were dated (e.g. ten or more years old), varied in quality and accuracy, or had only partial or no coverage for some counties. These findings corroborate an earlier evaluation of Phase 1 surveys for England (Wyatt 1991). These difficulties mean that accuracy varies from county to county, and occasionally within counties. No information was obtained at all in 1992/93 for Lincolnshire and as a result there remains no block-referenced biota information on wet grassland for that county. The survey only covers grassland blocks >10 ha in size (a stipulation of the 1992/93 brief) and hence small occurrences are not marked. A full account of problems and the accuracy of results is given in Dargie (1993).

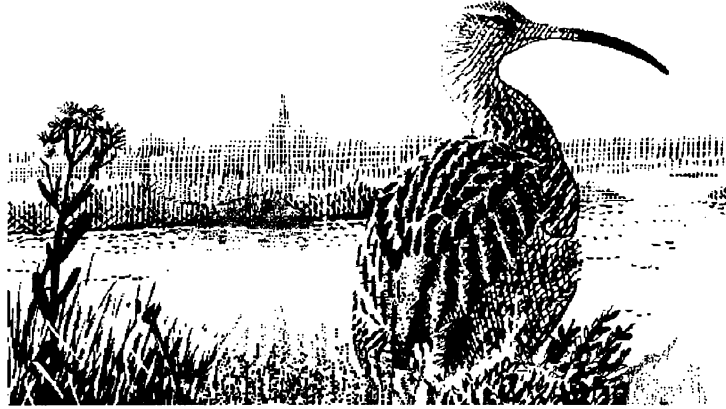
Dargie, T.C.D. (1992) Grazing marsh resource survey. Phase 1: resource location. Contract Report F72-08-10. Peterborough, English Nature.

Dargie, T.C.D. (1993) The distribution of lowland wet grassland in England. English Nature Research Report No. 49 (Contract F72-08-17). Peterborough, English Nature.

Dargie, T.C.D., Dargie, M.M. & Tantram, D. (1994) Lowland wet grassland resource survey. Module 2: Biota Inventory. (Contract F72-08-18). Peterborough, English Nature.

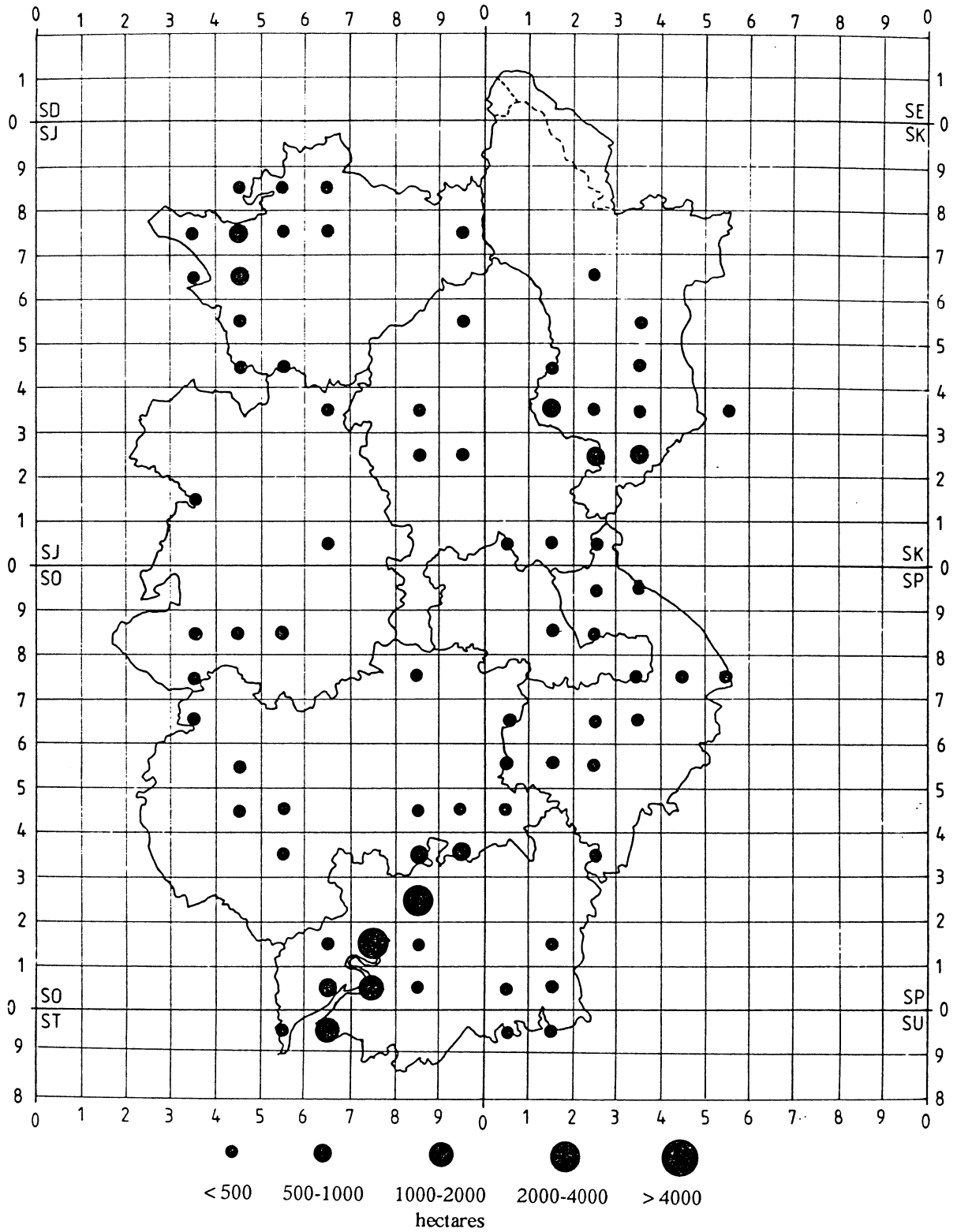
Wyatt, G. (1991). A review of Phase 1 habitat survey in England. Volume 1 General Report, supported by eight regional reports. Great Britain Nature Conservation Survey Project No. 4. Peterborough, Nature Conservancy Council.

LOWLAND WET
GRASSLAND



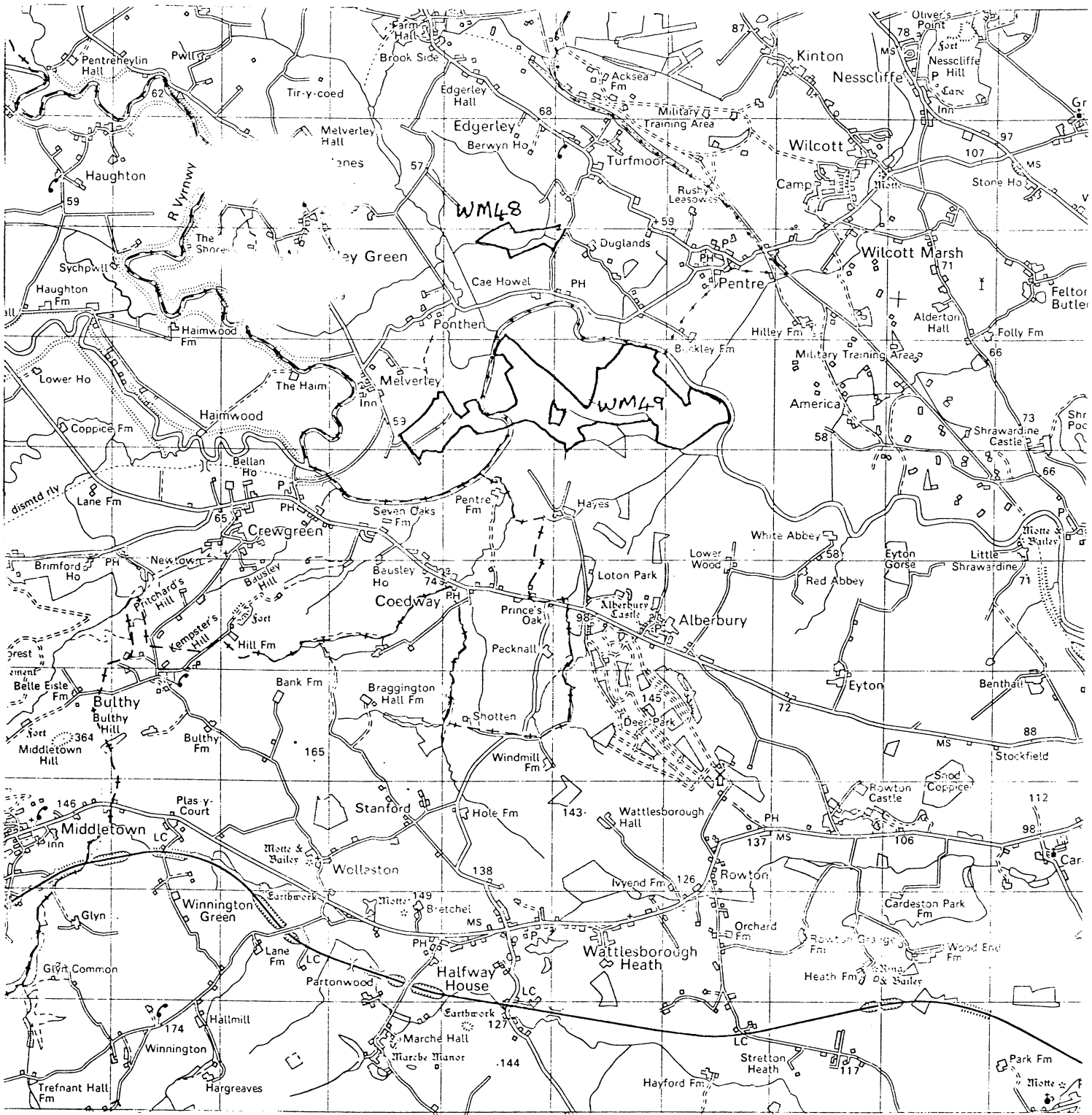
R E S O U R C E S U R V E Y

DISTRIBUTION OF LOWLAND WET
GRASSLAND IN 10KM SQUARES



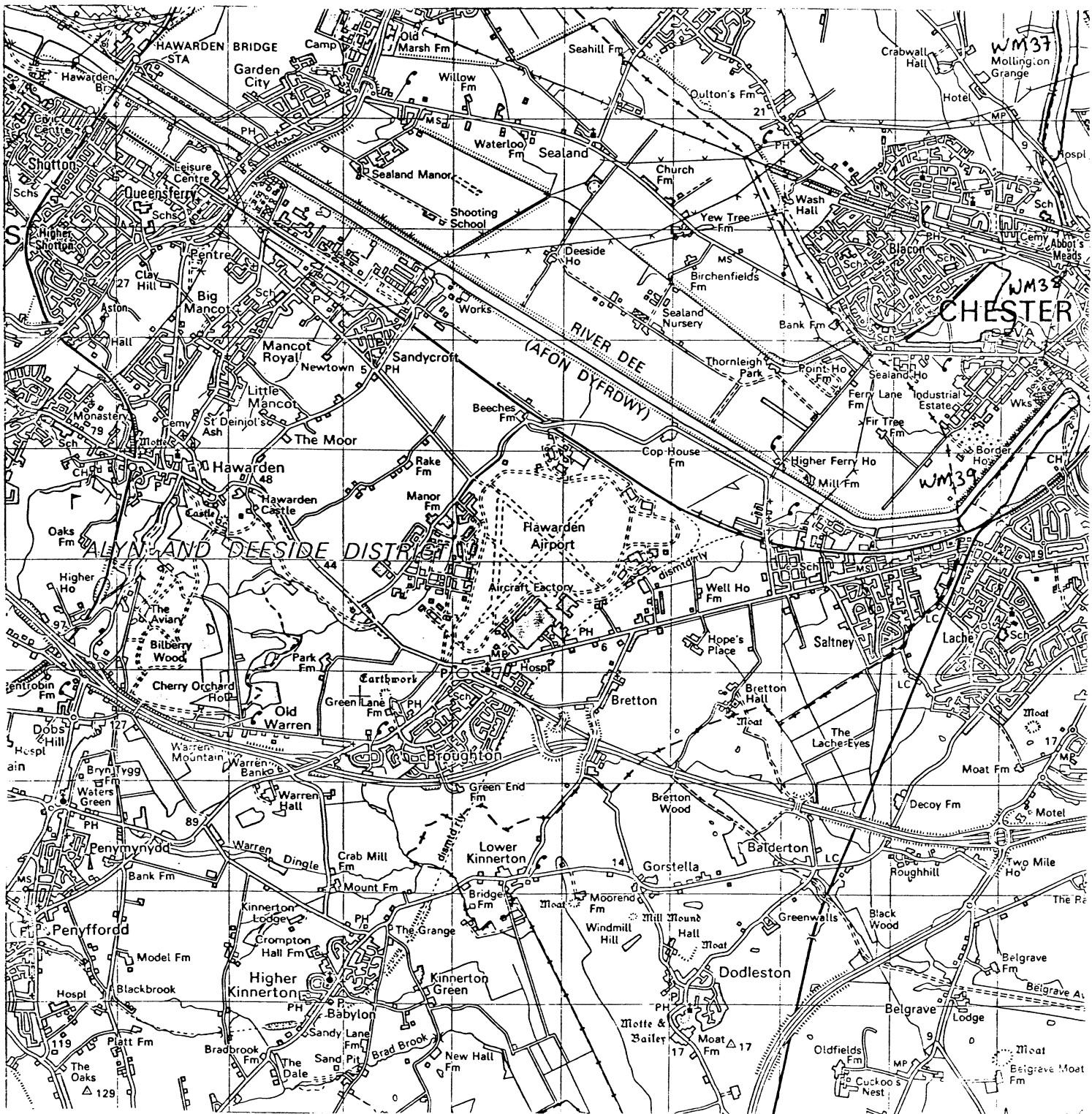
Grid lines are spaced at 10 km intervals

Distribution of lowland wet grassland in 10 km squares of West Midlands Region

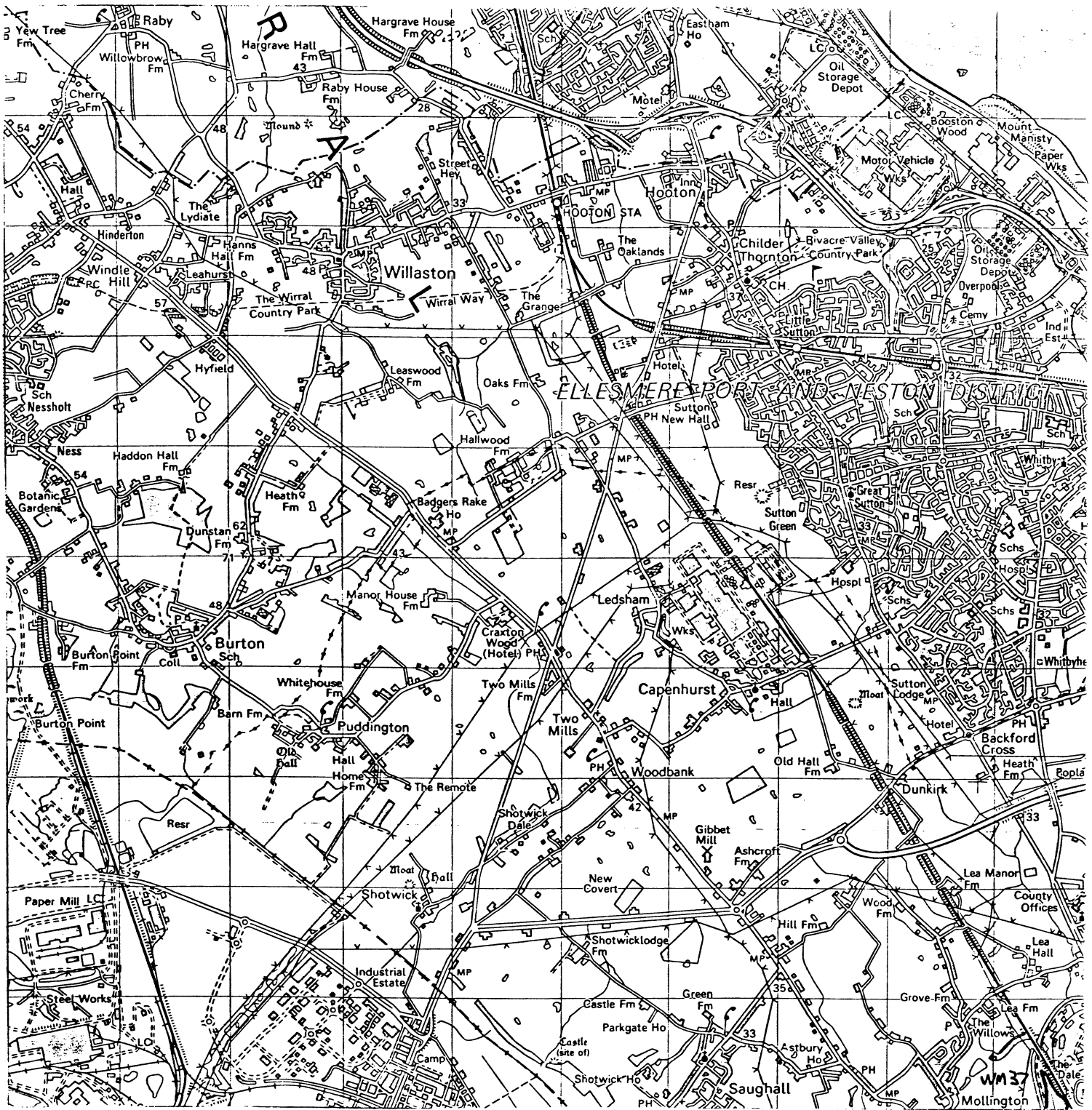


SJ31 Sheet 126

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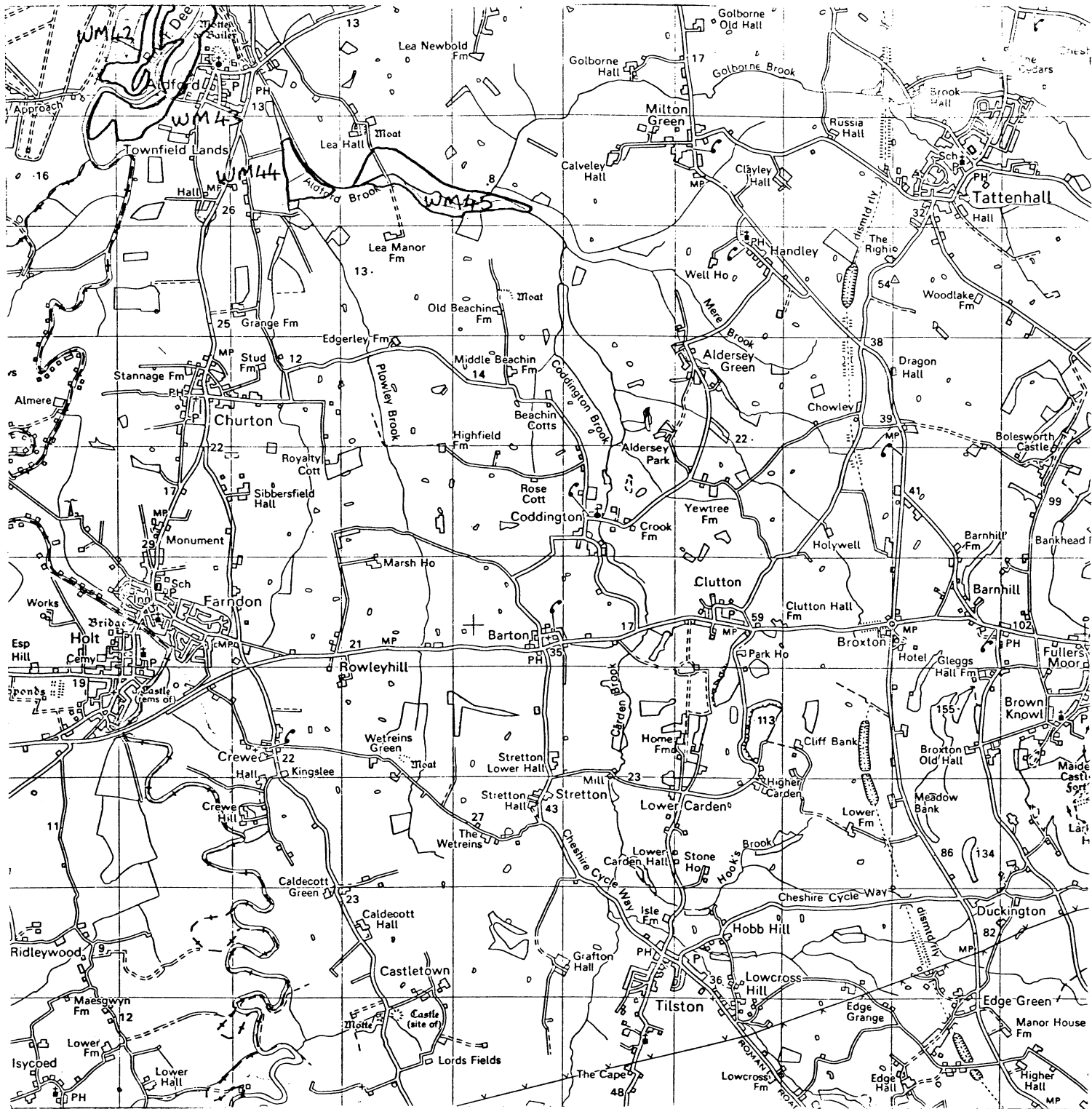
SJ36 Sheet 117



SJ37 Sheet 117



SJ44 Sheet 117



SJ45 Sheet 117

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CHESHIRE

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CHESHIRE

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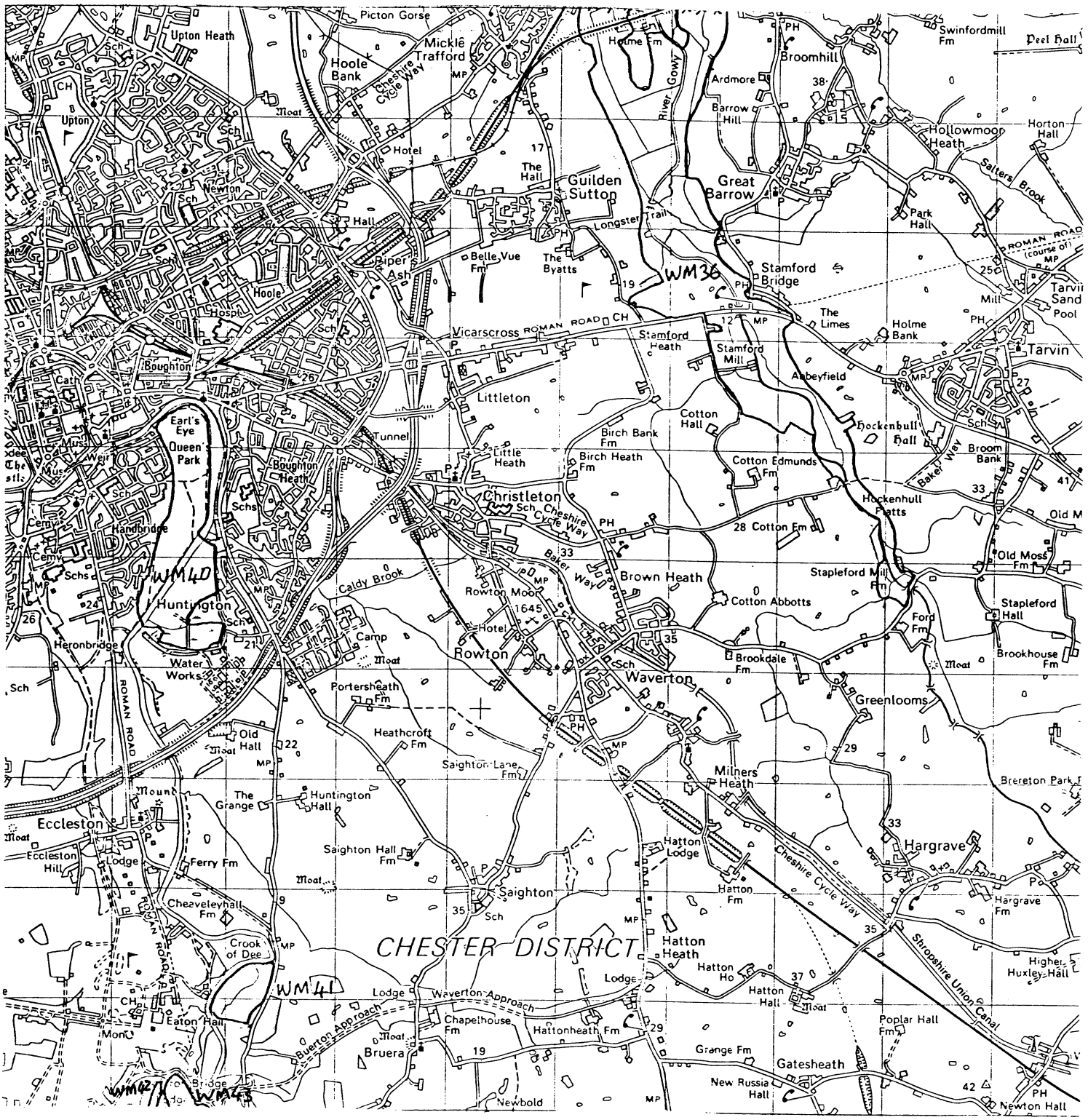
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CHESHIRE



SJ46 Sheet 117

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CHESHIRE

WM36 Ref: 653

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CHESHIRE

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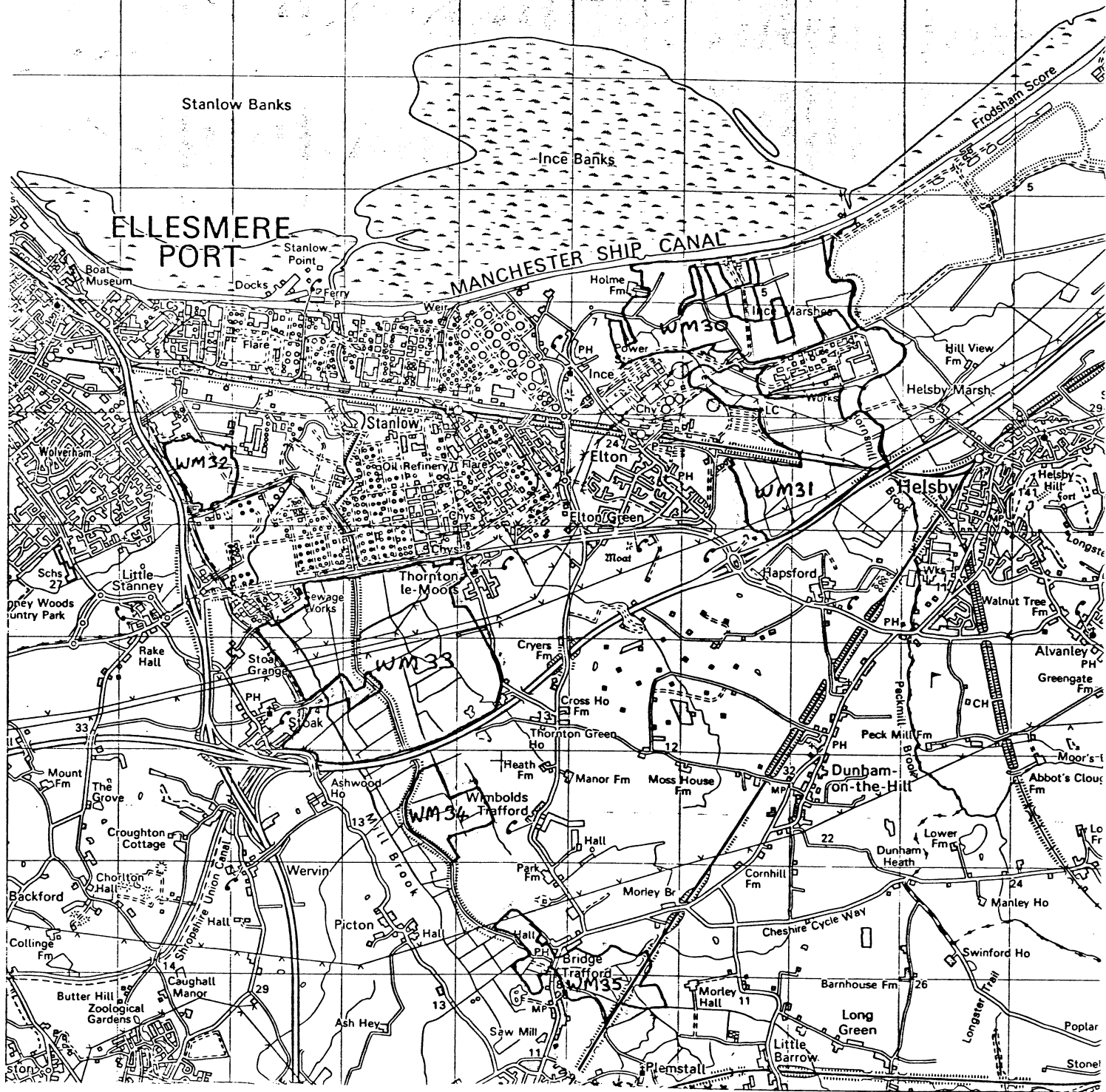
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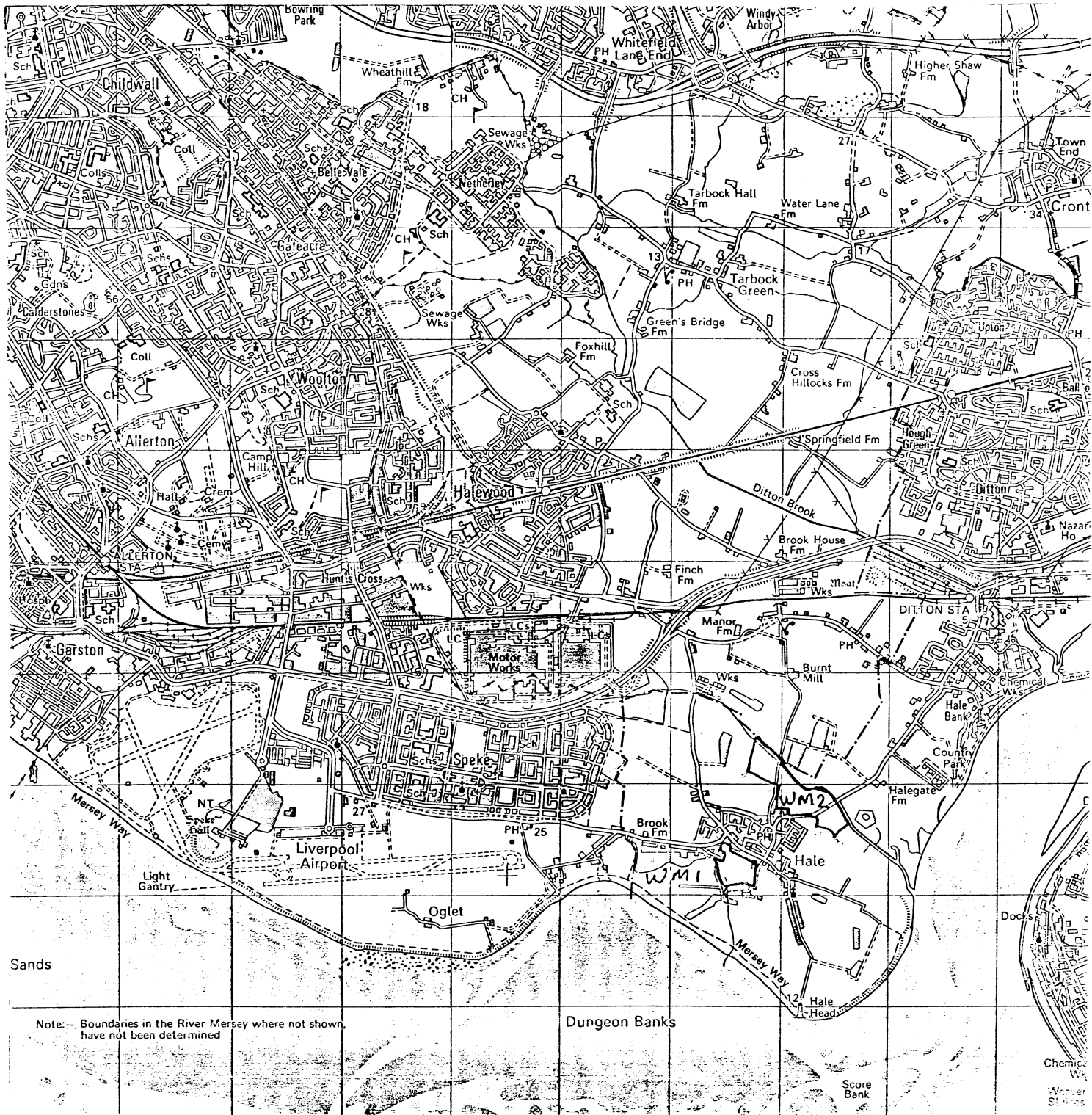
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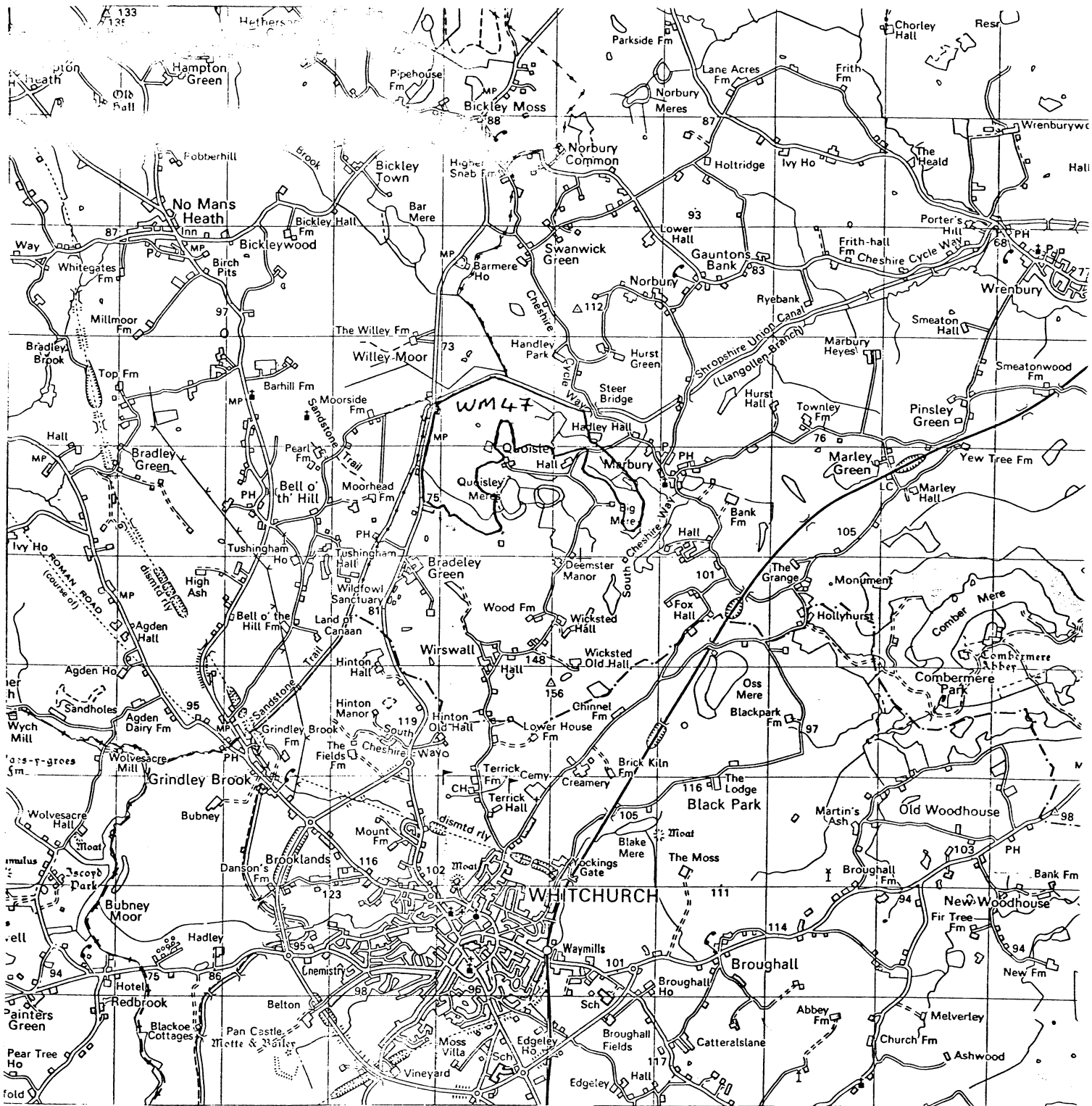


SJ47 Sheet 117

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SJ48 Sheet 108



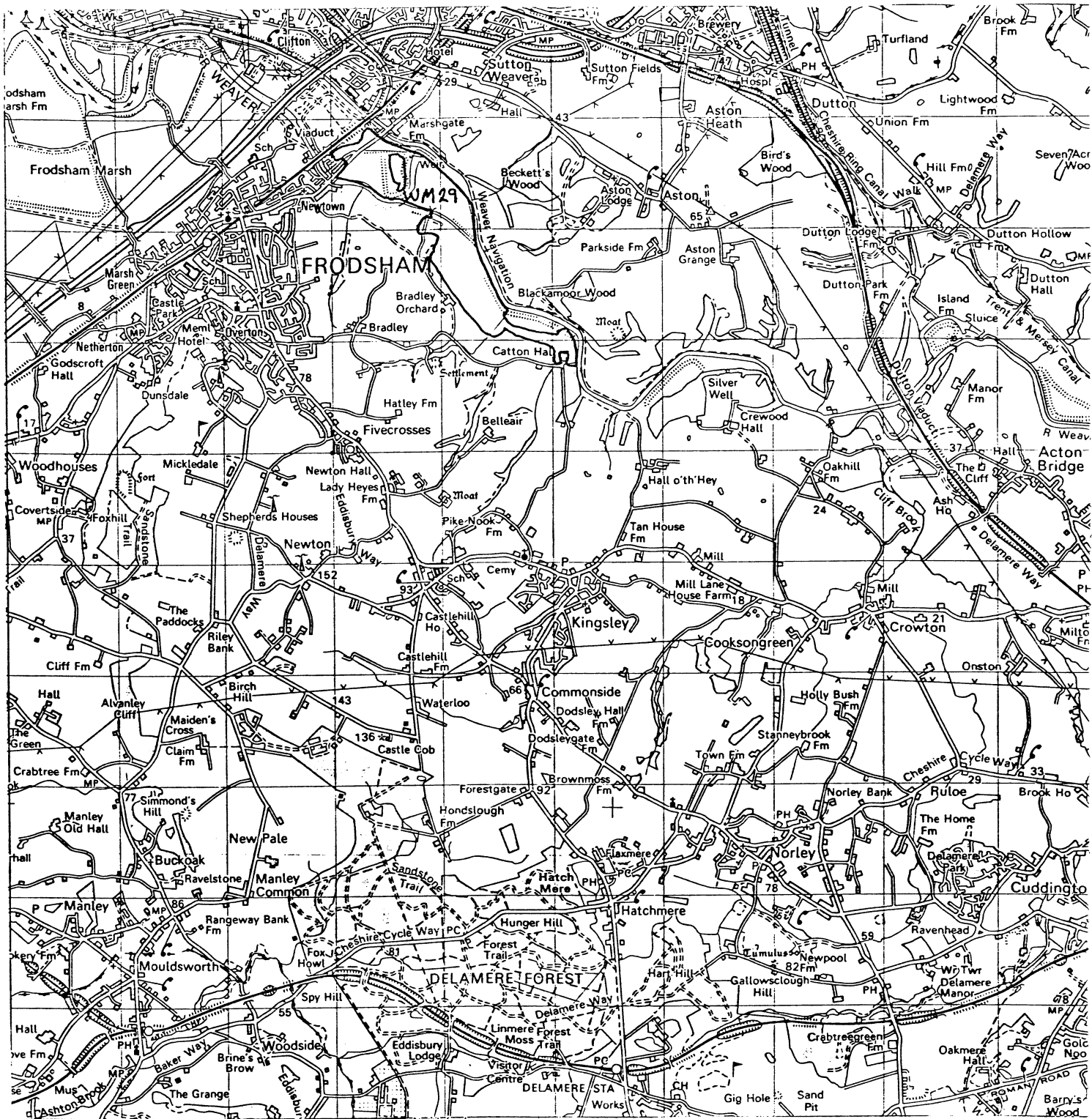
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CHESHIRE



SJ57 Sheet 117

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CHESHIRE

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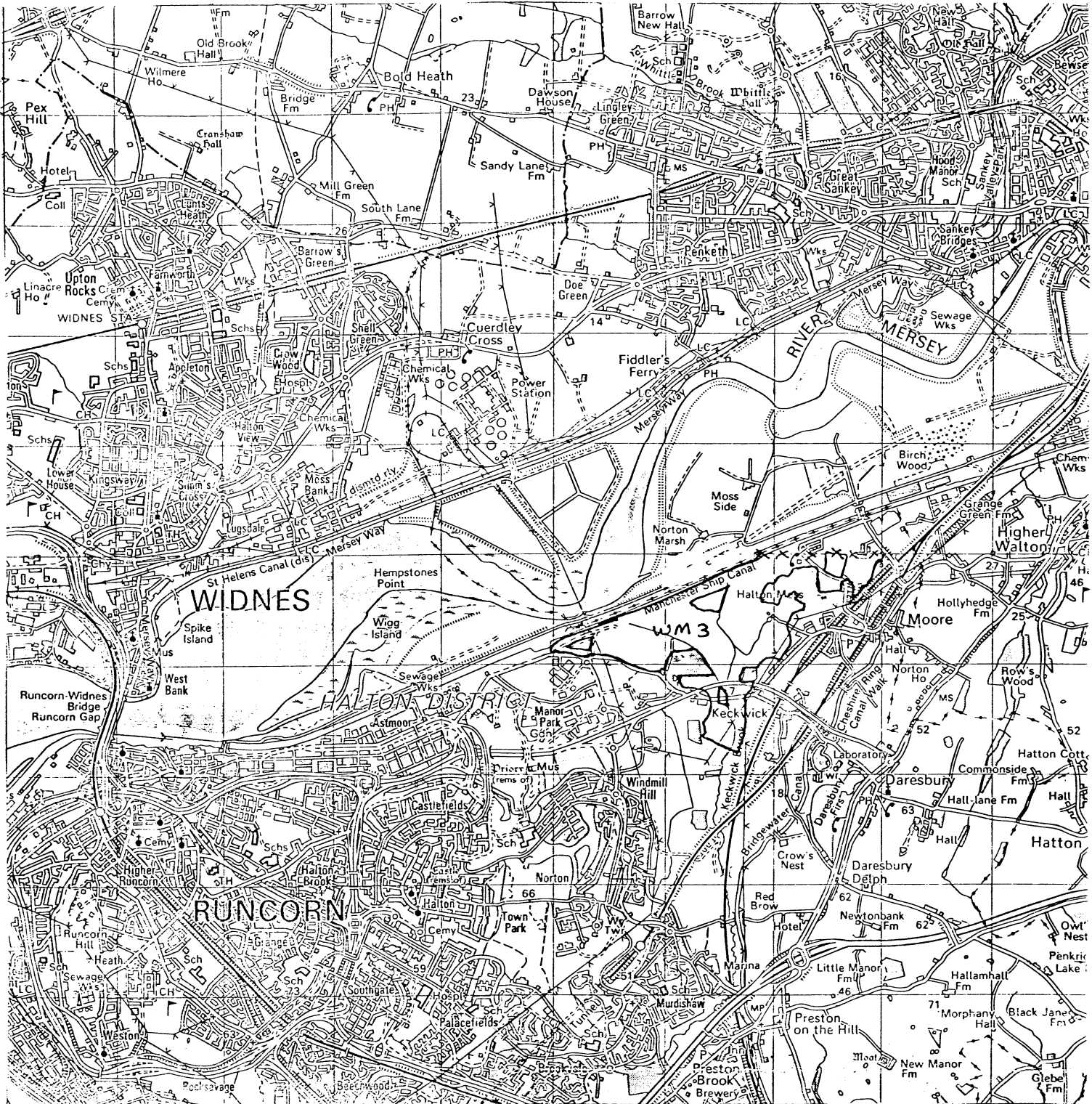
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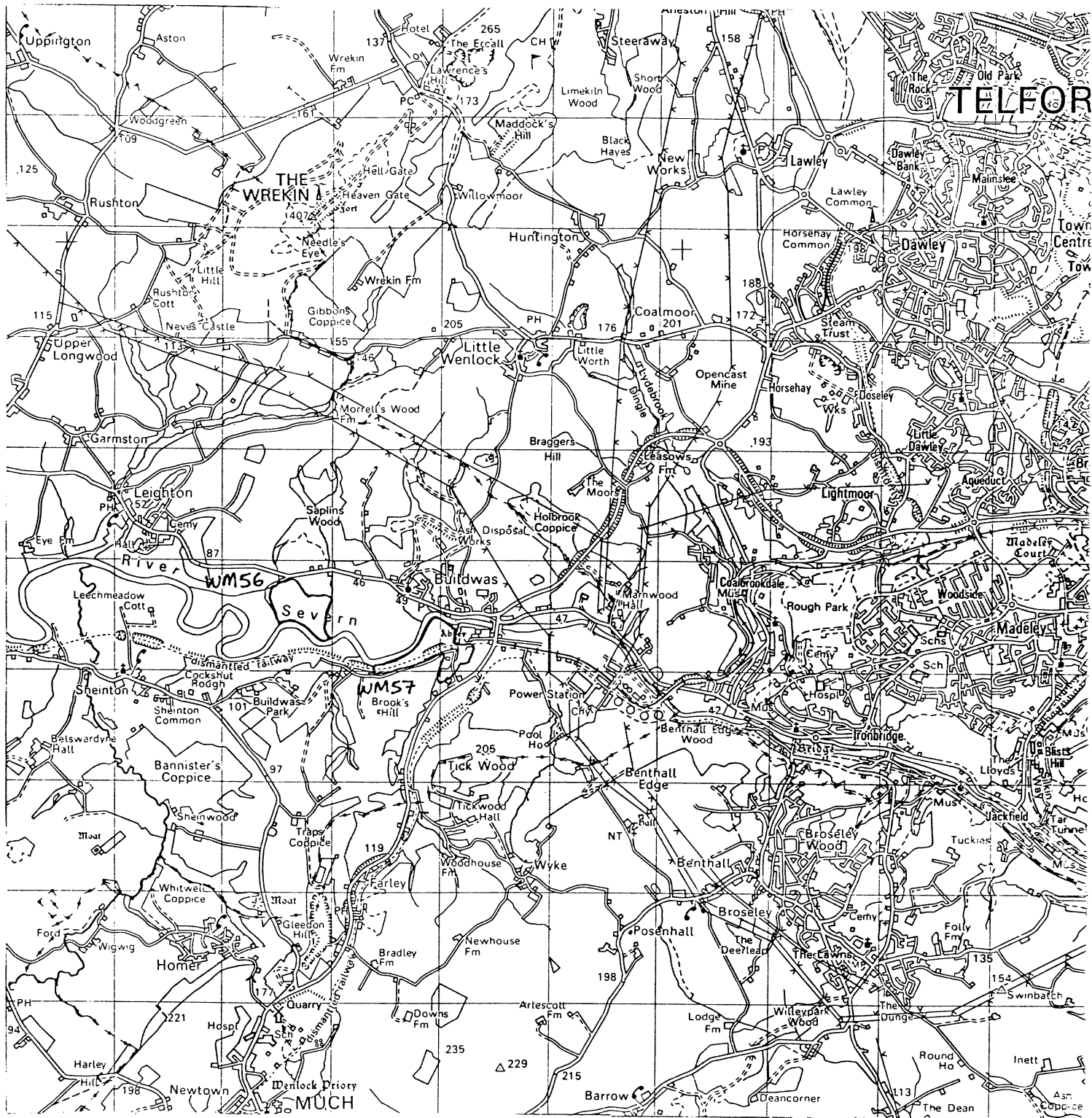
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CHESHIRE



SJ58 Sheet 108

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SJ60 Sheet 127

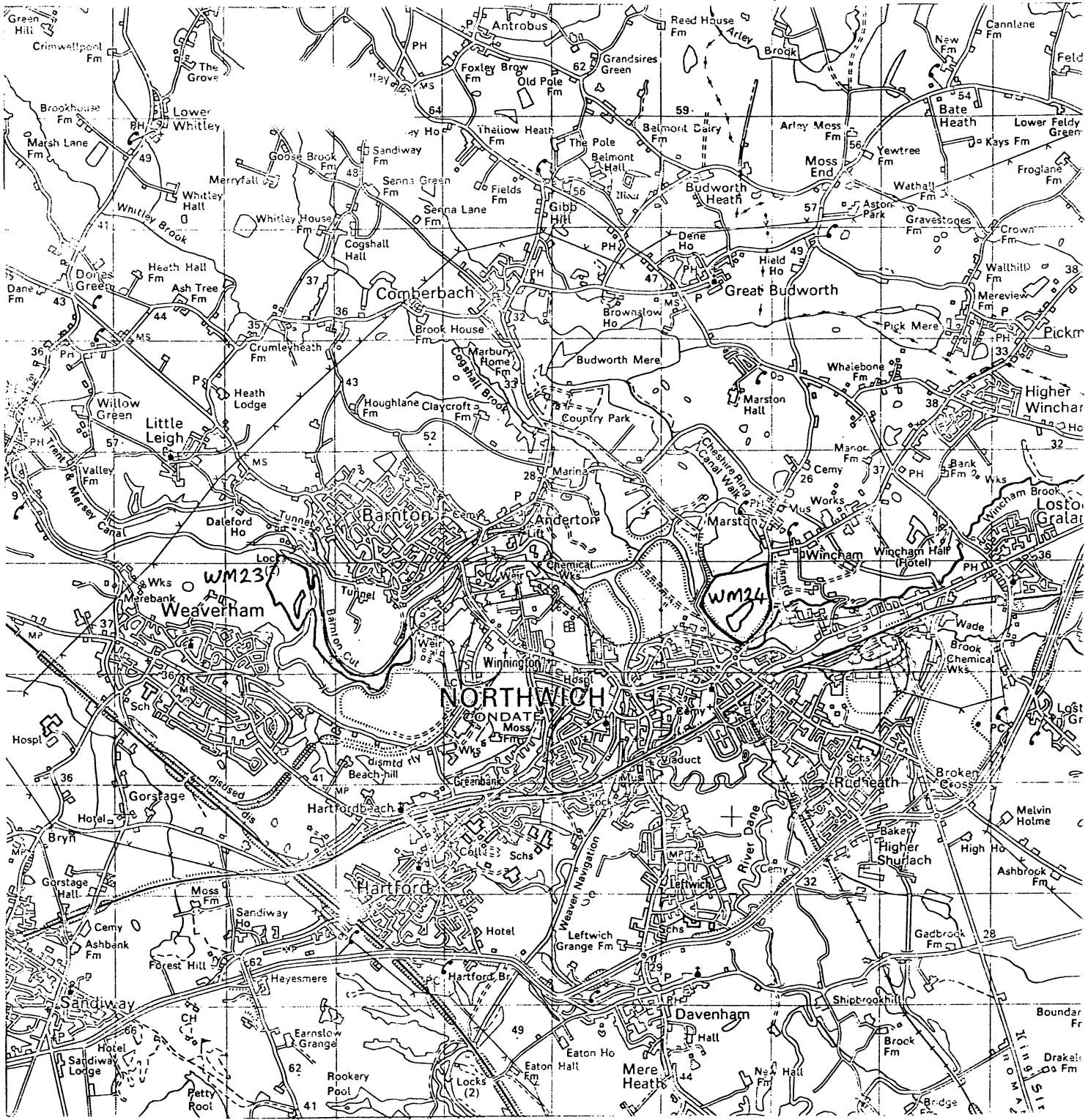


SJ63 Sheet 127

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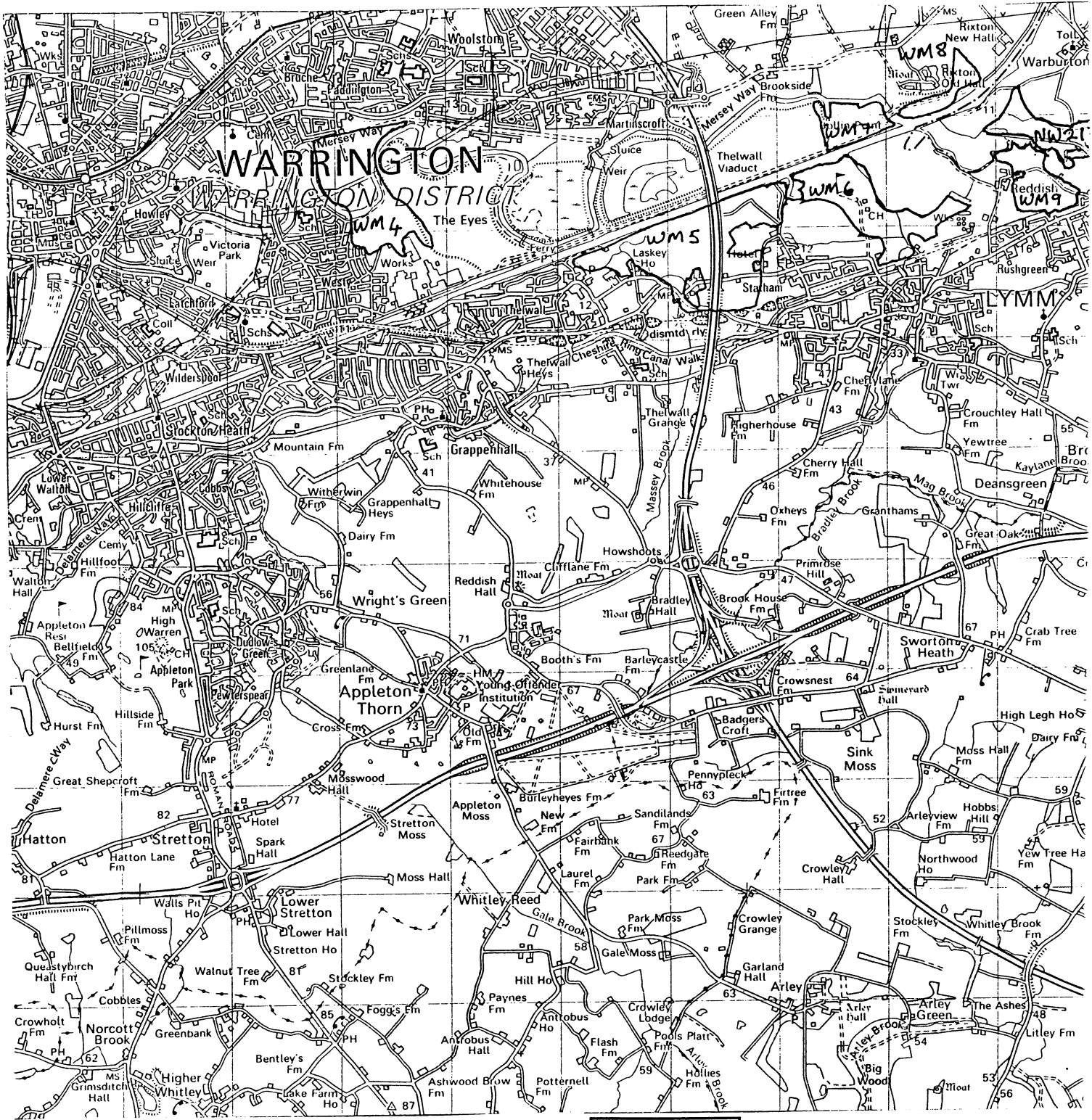
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SHROPSHIRE



SJ67 Sheet 118

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CHESHIRE	



SJ68

Sheet 109

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CHESHIRE

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CHESHIRE

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CHESHIRE

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CHESHIRE

WM6 Ref: 190

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CHESHIRE



SJ82 Sheet 127

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STAFFORDSHIRE

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STAFFORDSHIRE



SJ83 Sheet 127



SJ91 Sheet 127

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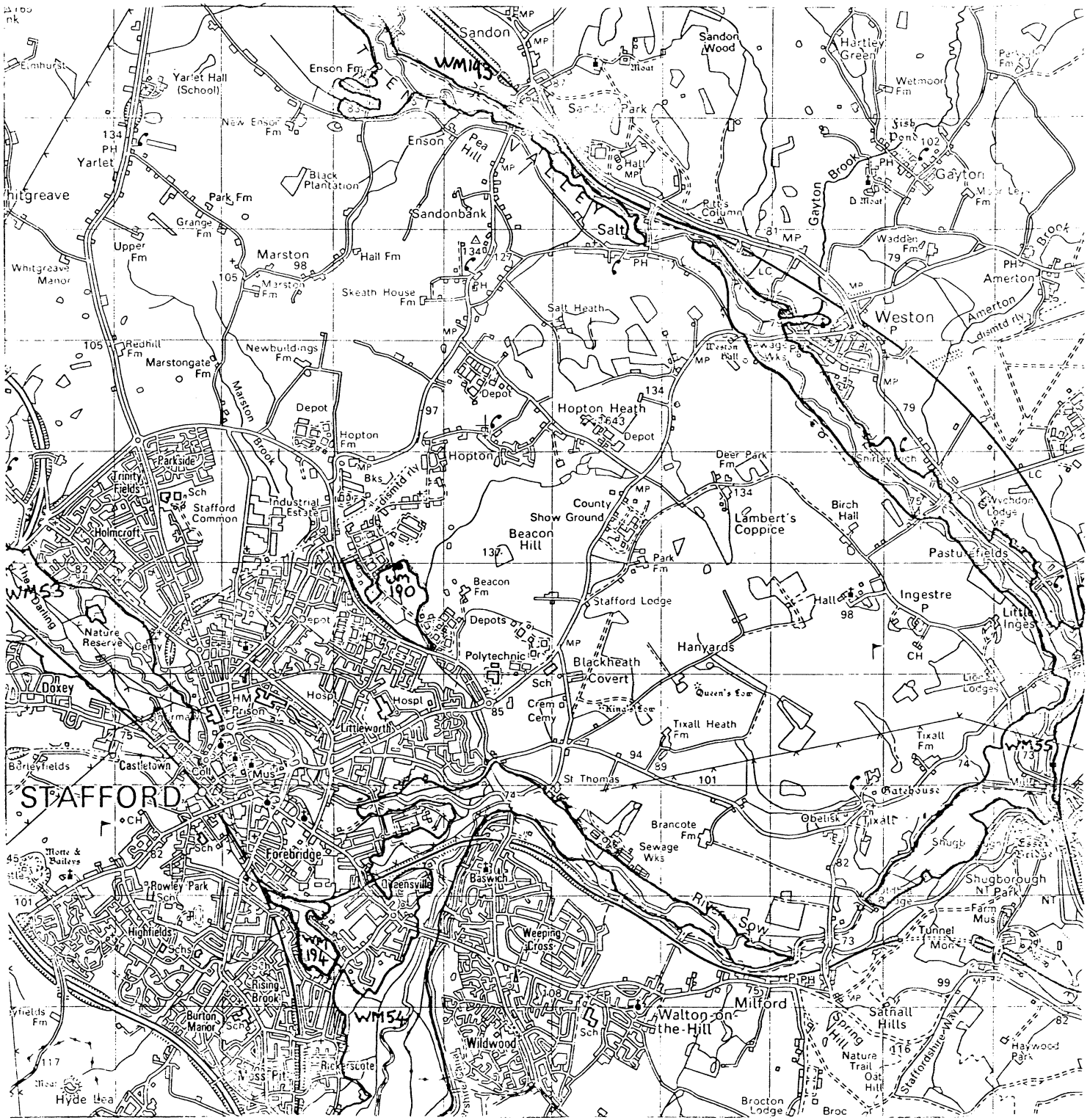
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STAFFORDSHIRE



SJ92 Sheet 127

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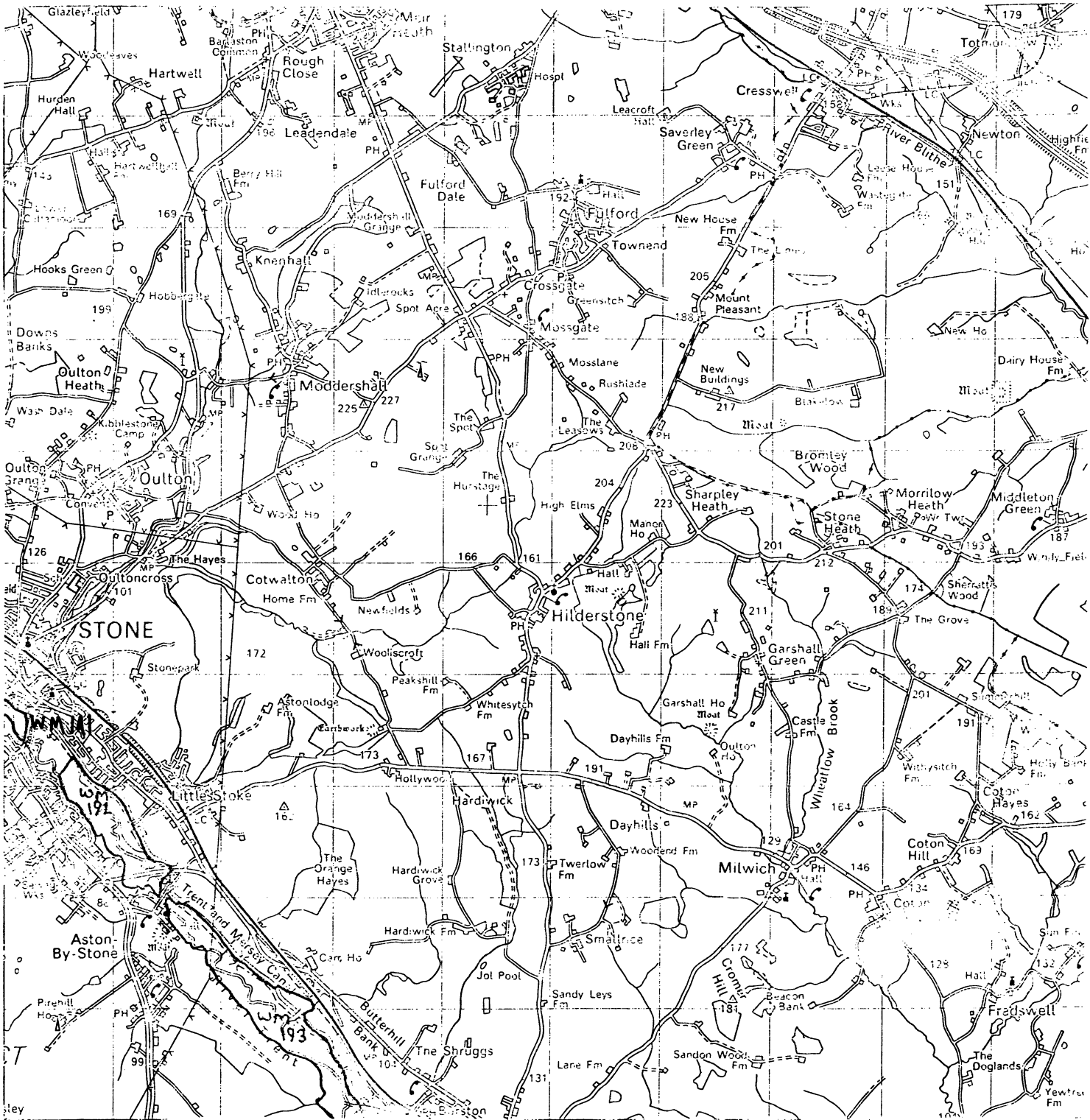
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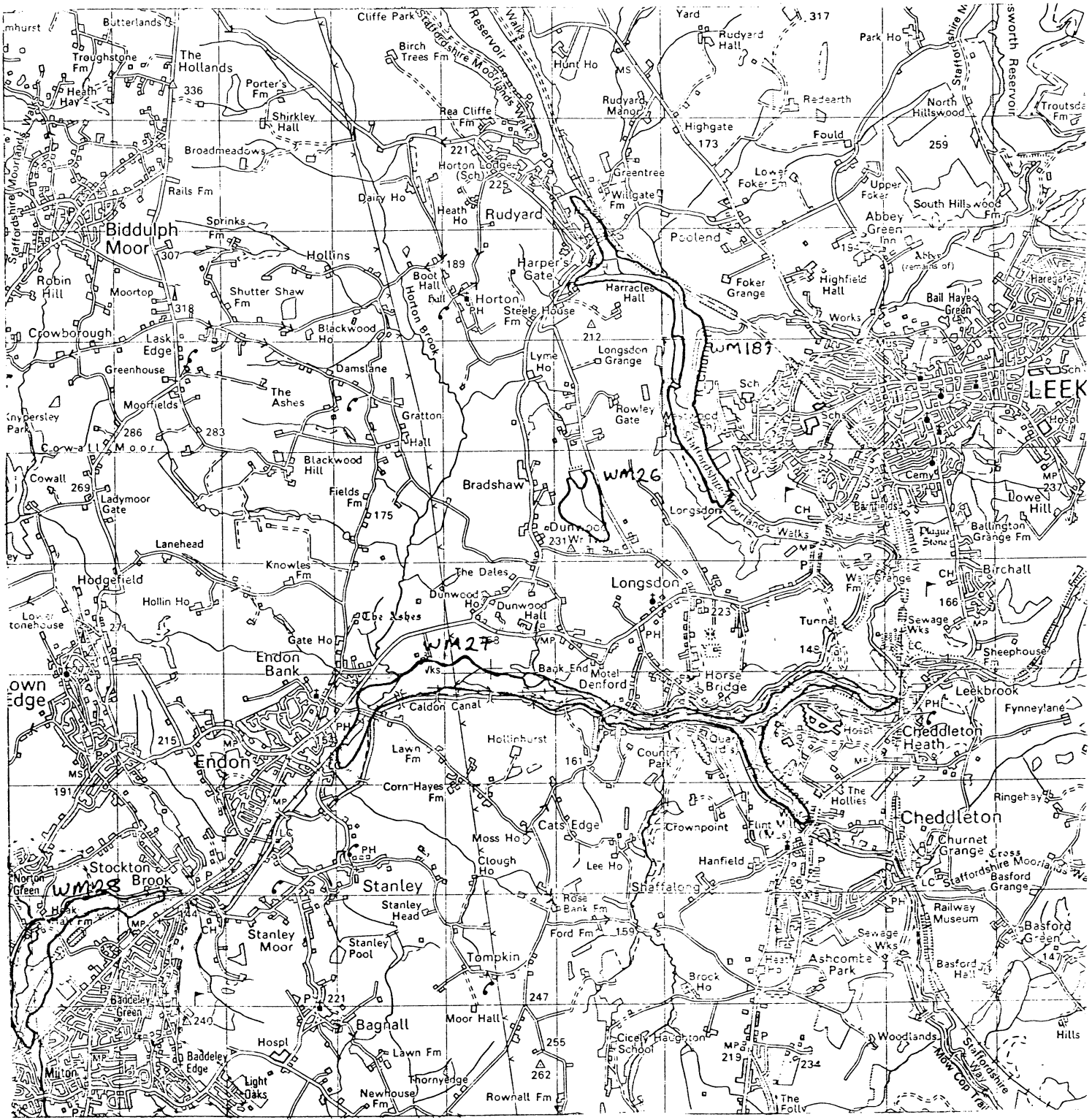
SJ93 Sheet 127

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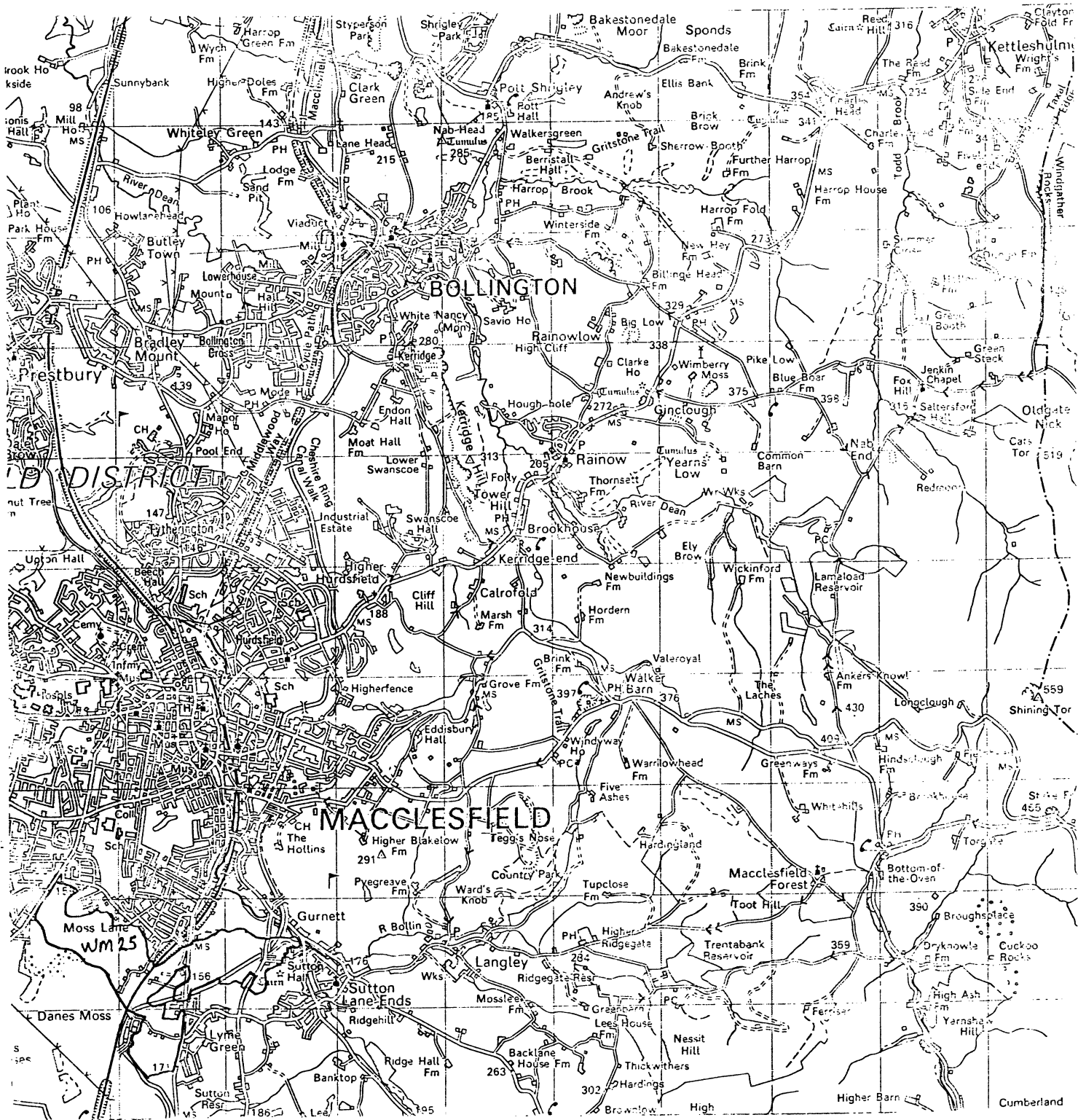
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SJ95 Sheet 118



SJ97 Sheet 118

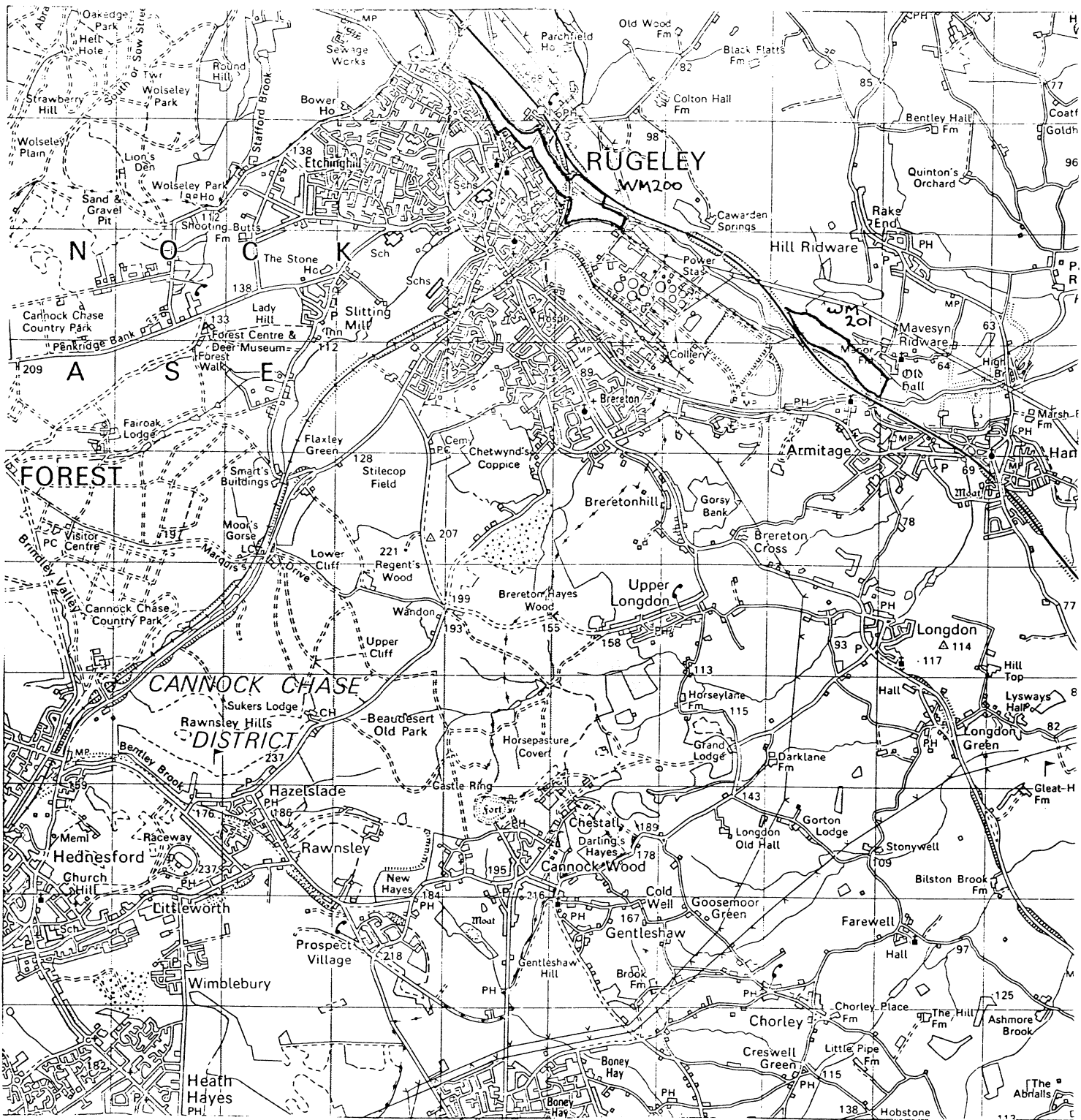
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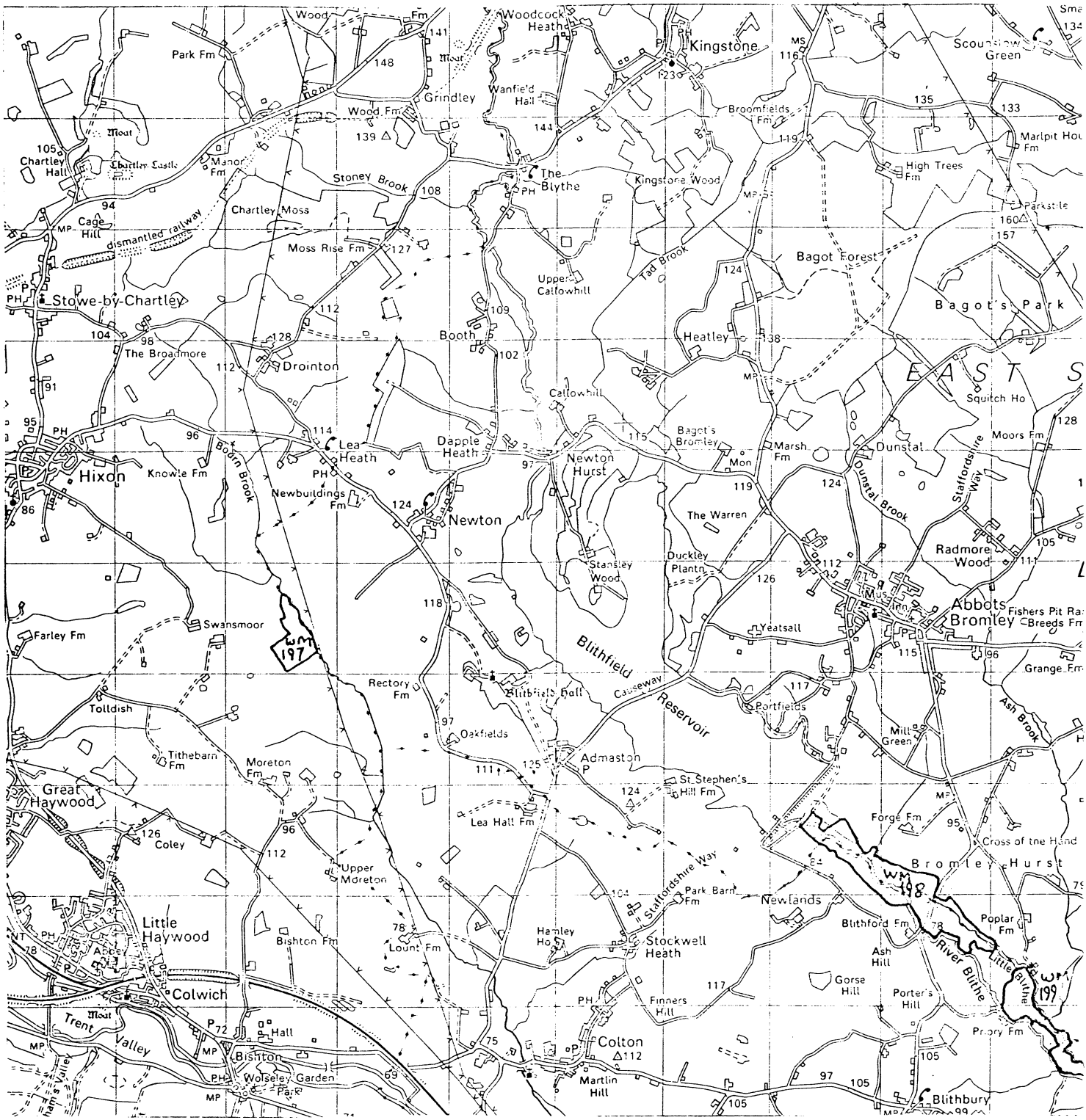
CHESHIRE



SK00 **Sheets 139,128**



SK01 Sheet 128

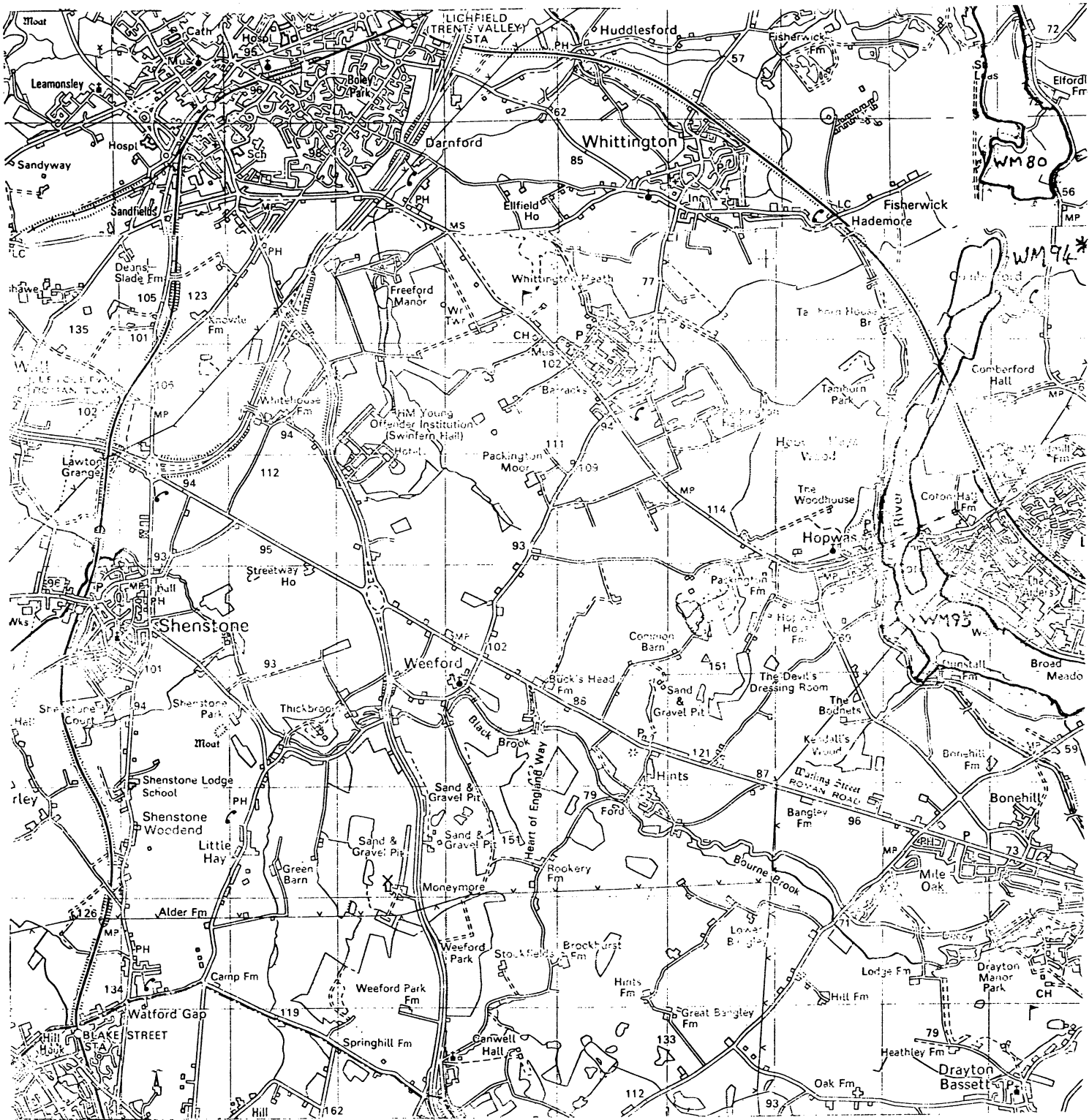


SK02 Sheet 128

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STAFFORDSHIRE



SK10 Sheets 139,128

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STAFFORDSHIRE

WM95 Ref. 661

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STAFFORDSHIRE

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STAFFORDSHIRE



SK11 Sheet 128

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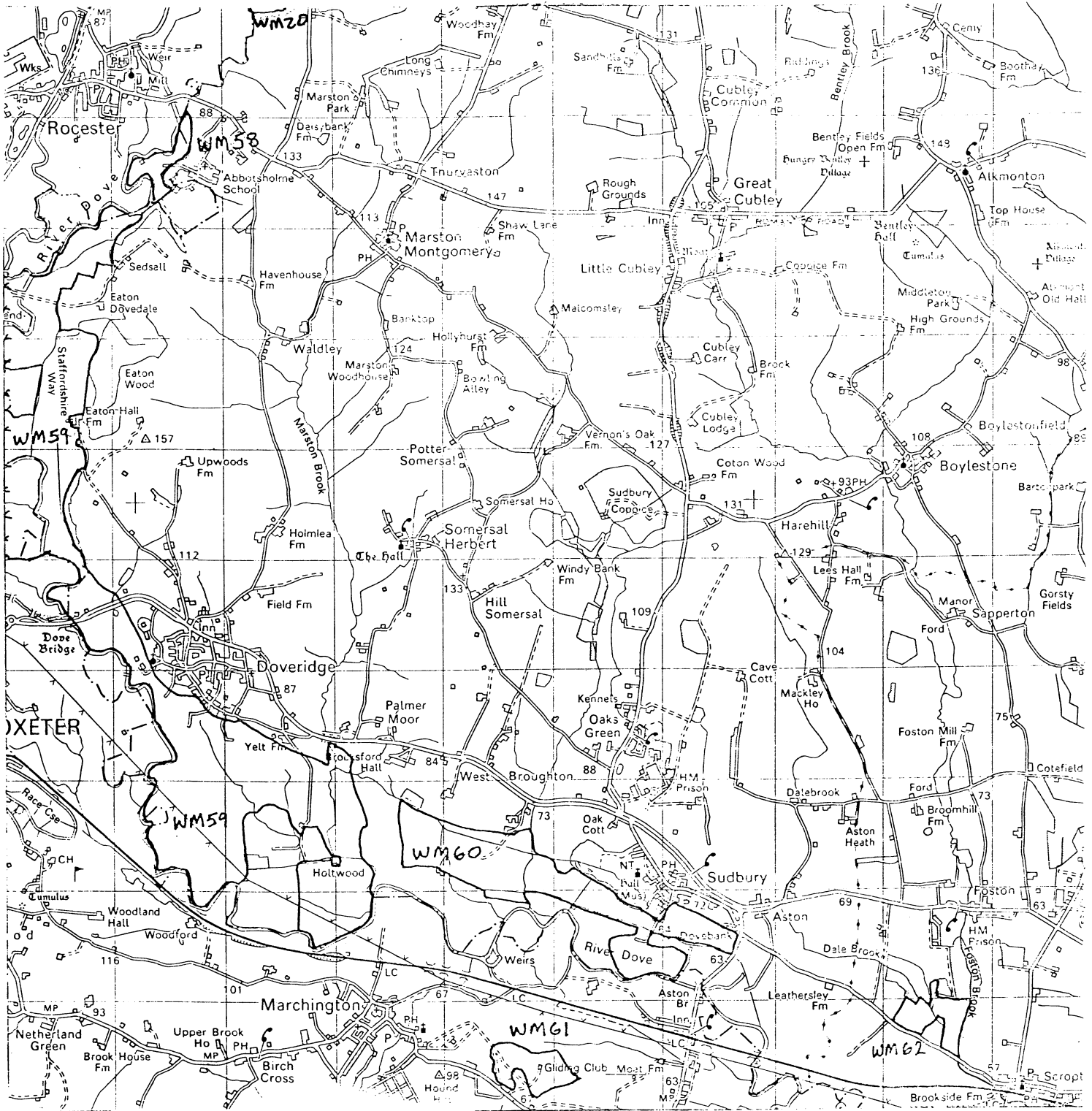
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STAFFORDSHIRE

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STAFFORDSHIRE



SK13 Sheet 128

WM59 Ref. 214

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DERBYSHIRE

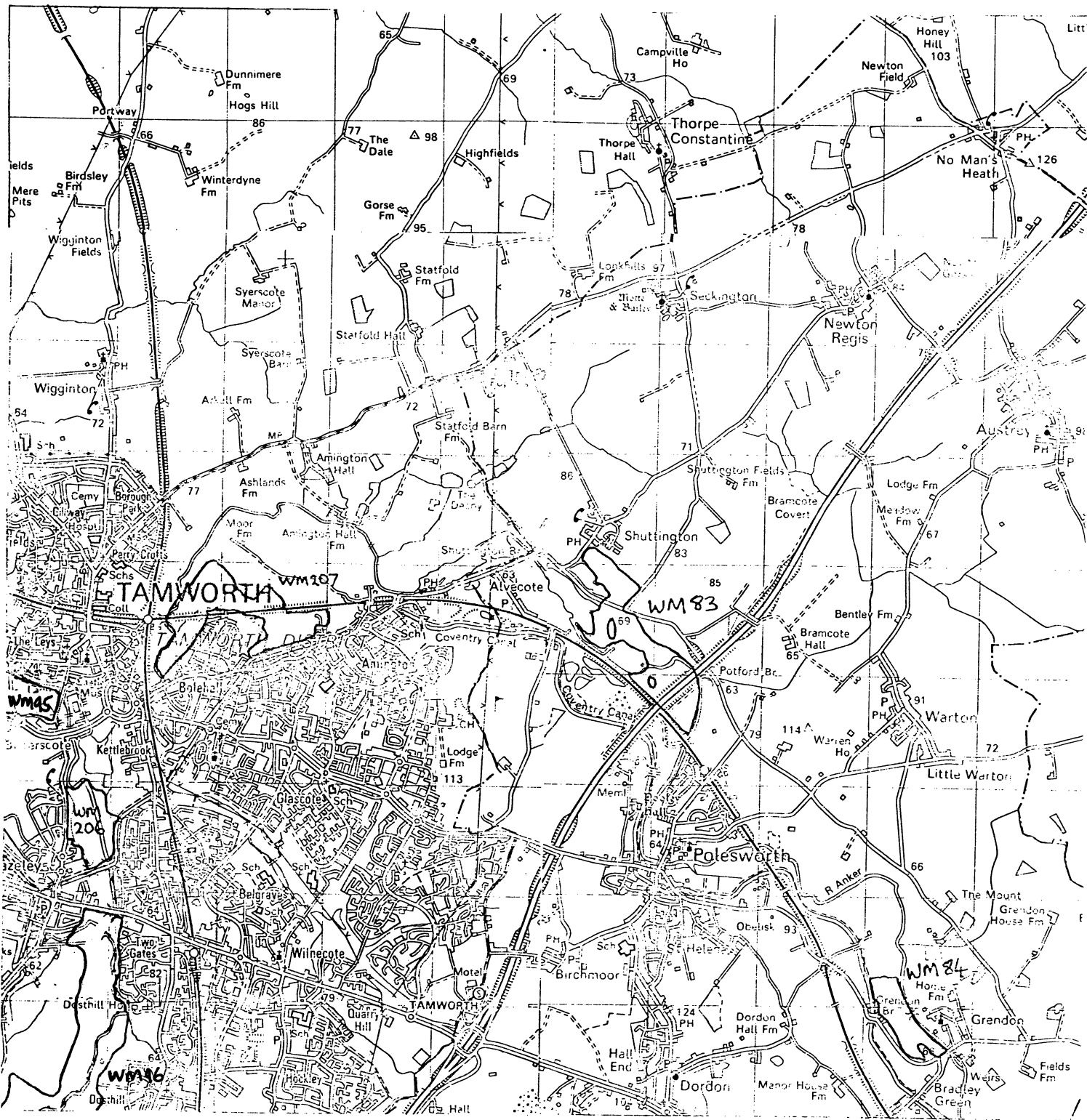


SK14 Sheet 119

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DERBYSHIRE



SK20 Sheets 139,128,140

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WARWICKSHIRE

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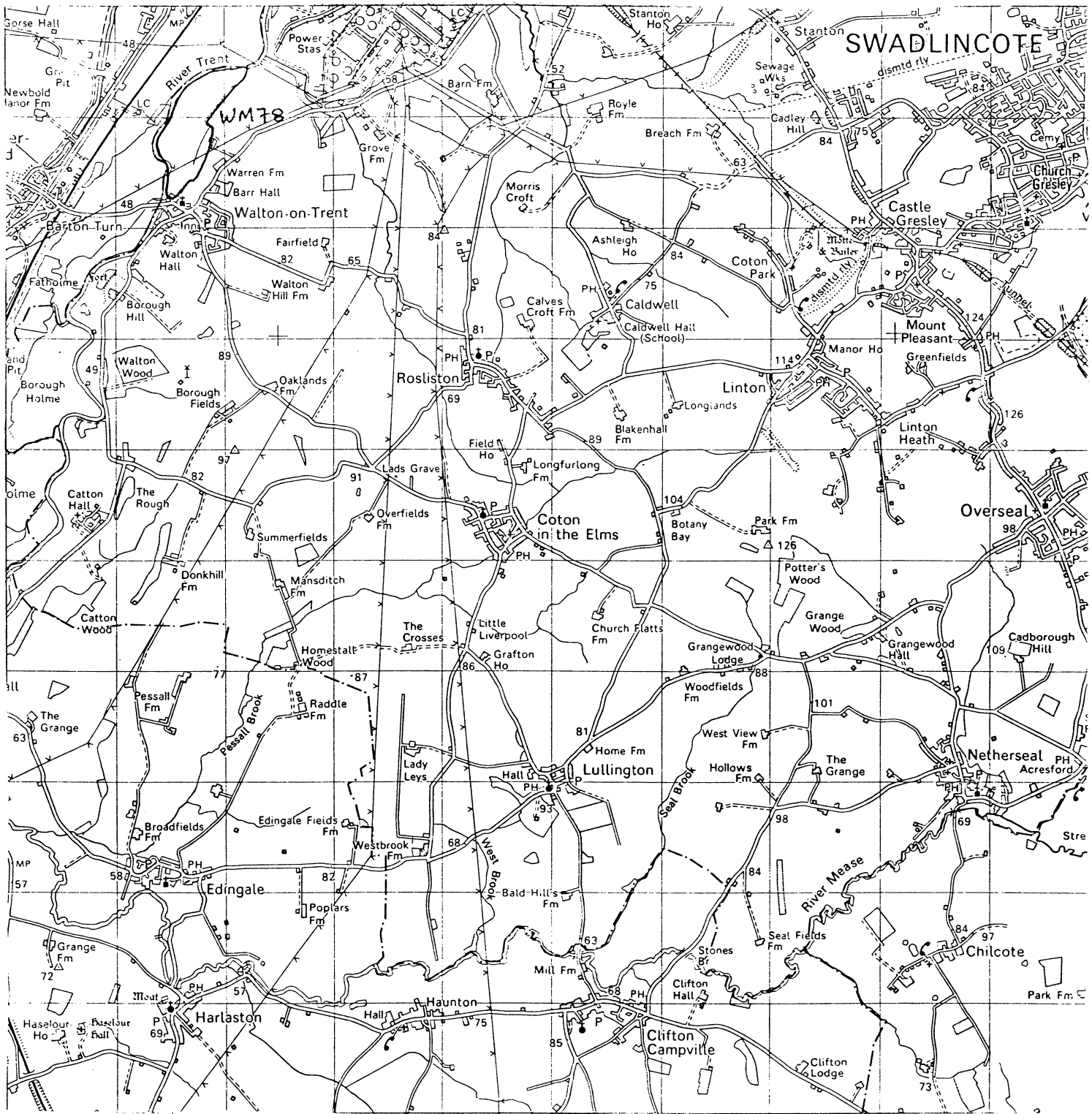
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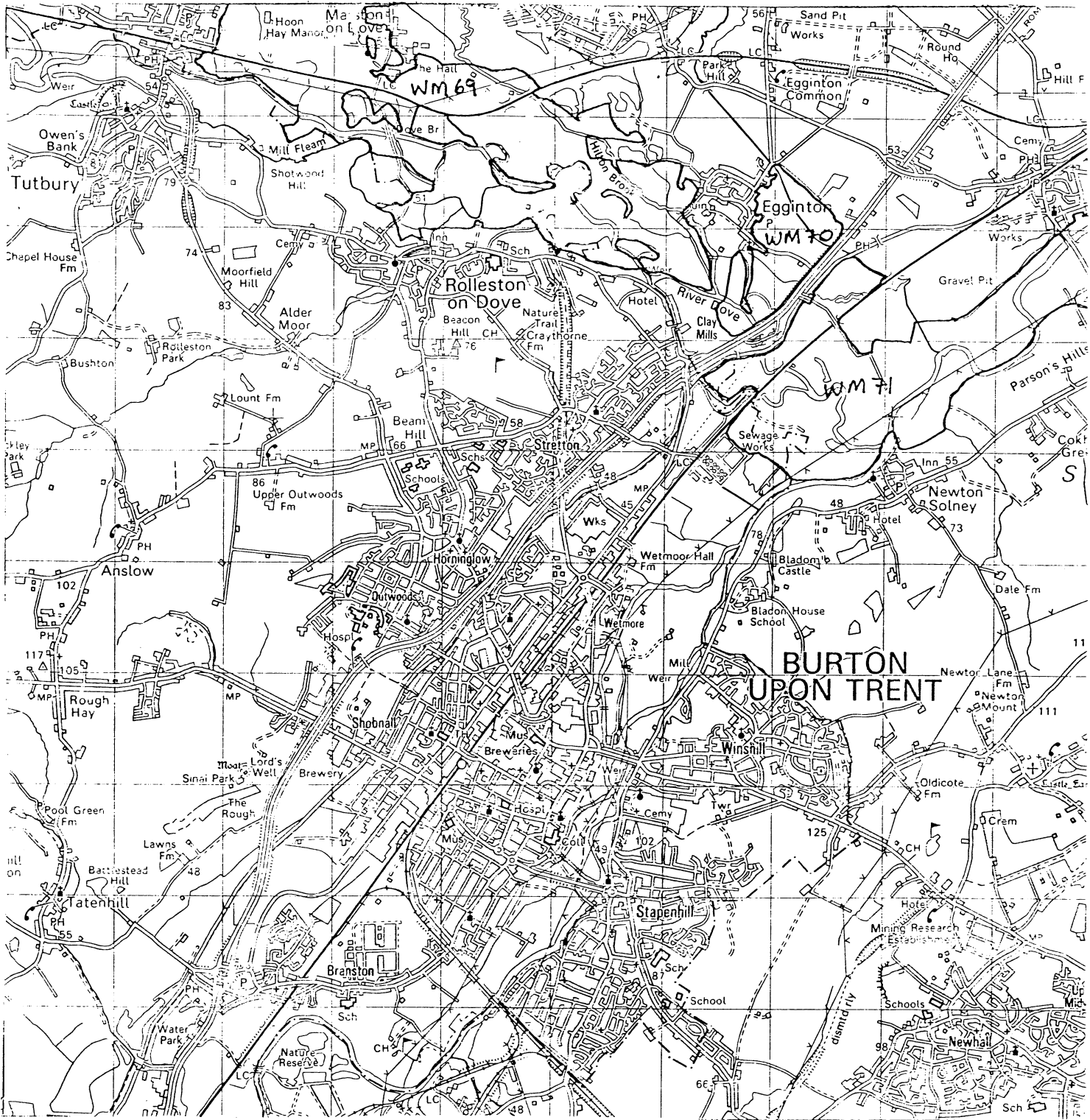


SK21 Sheet 128

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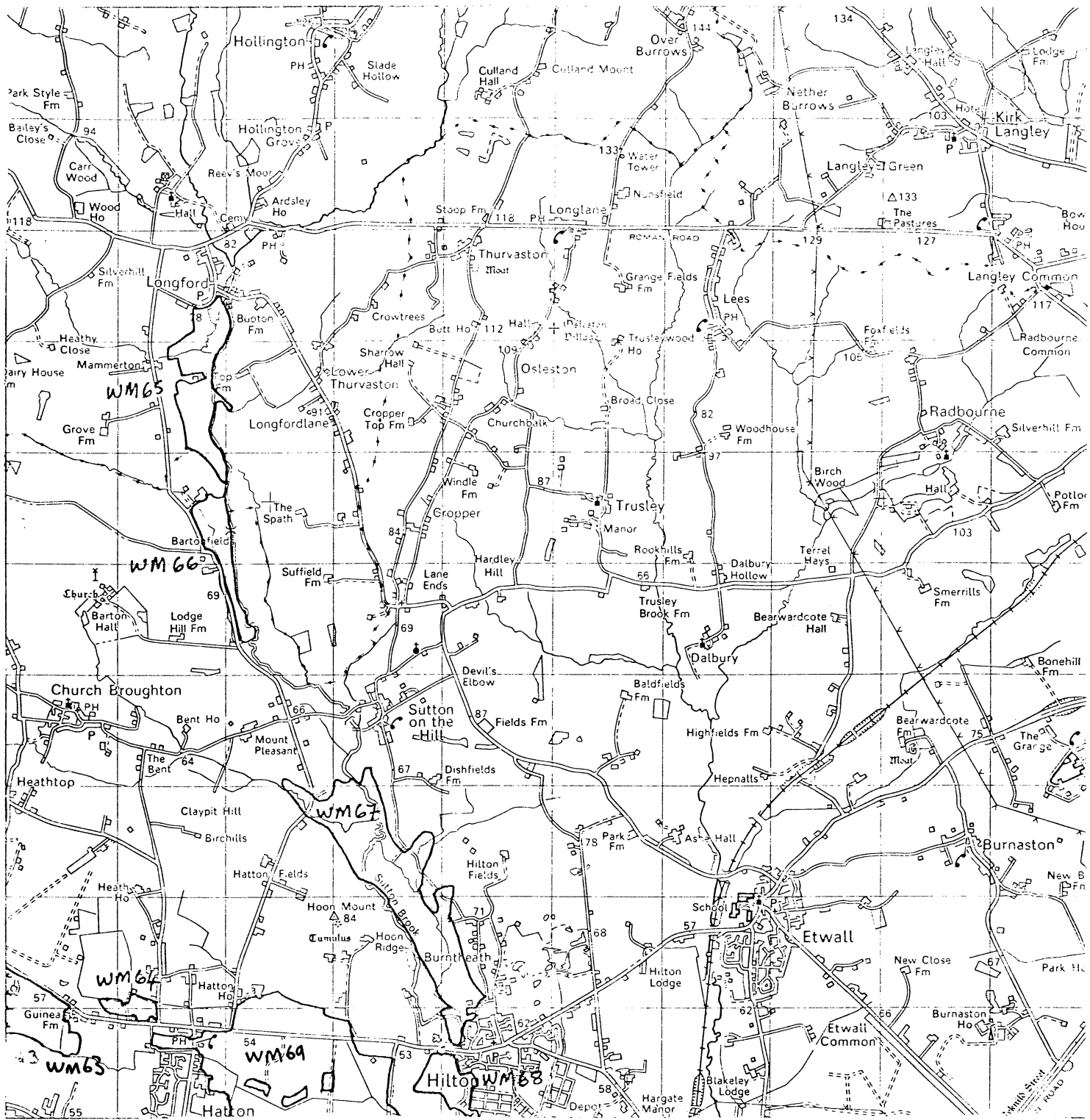
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DERBYSHIRE



SK22 Sheet 128

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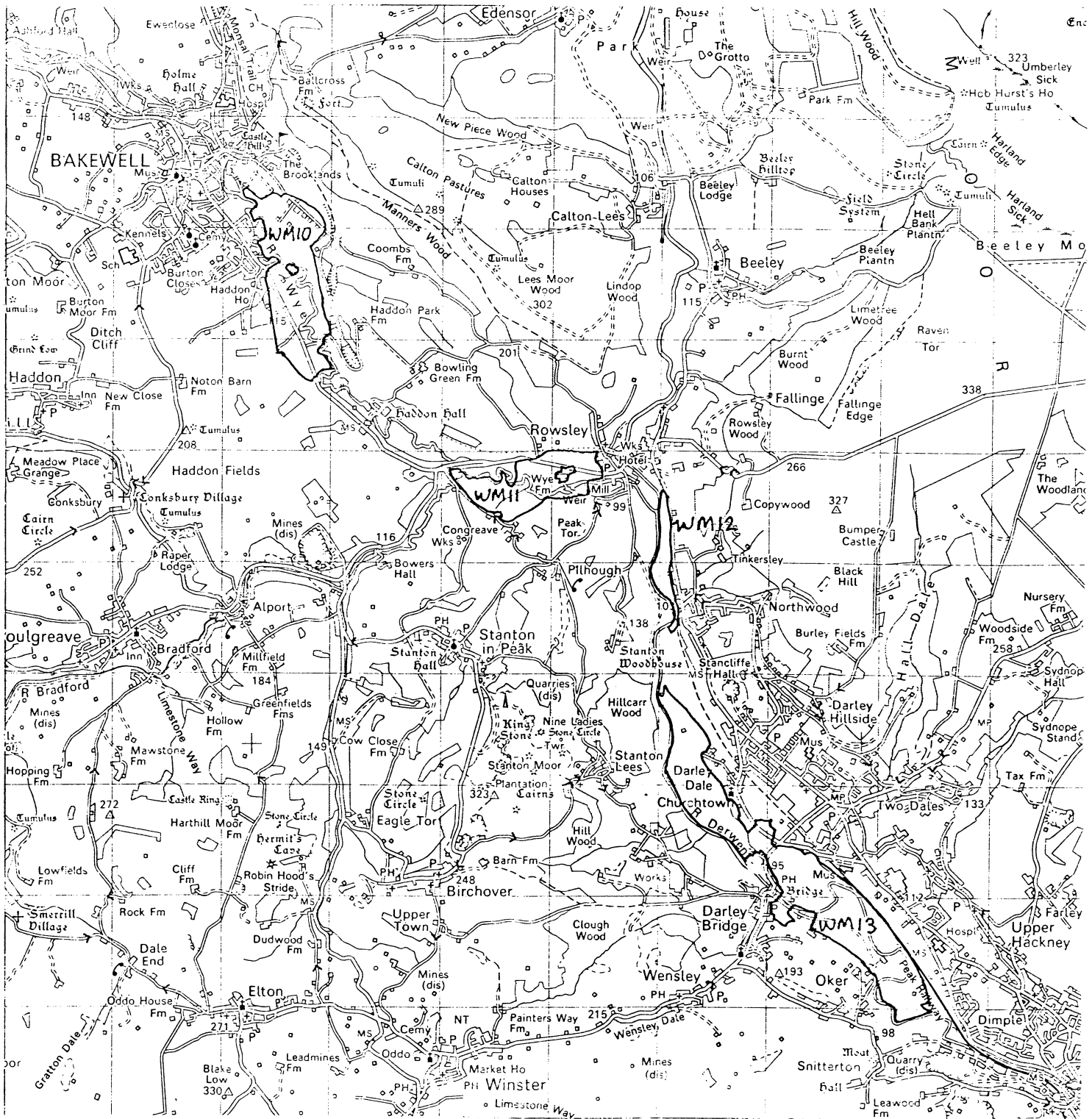


SK23 Sheet 128

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DERBYSHIRE

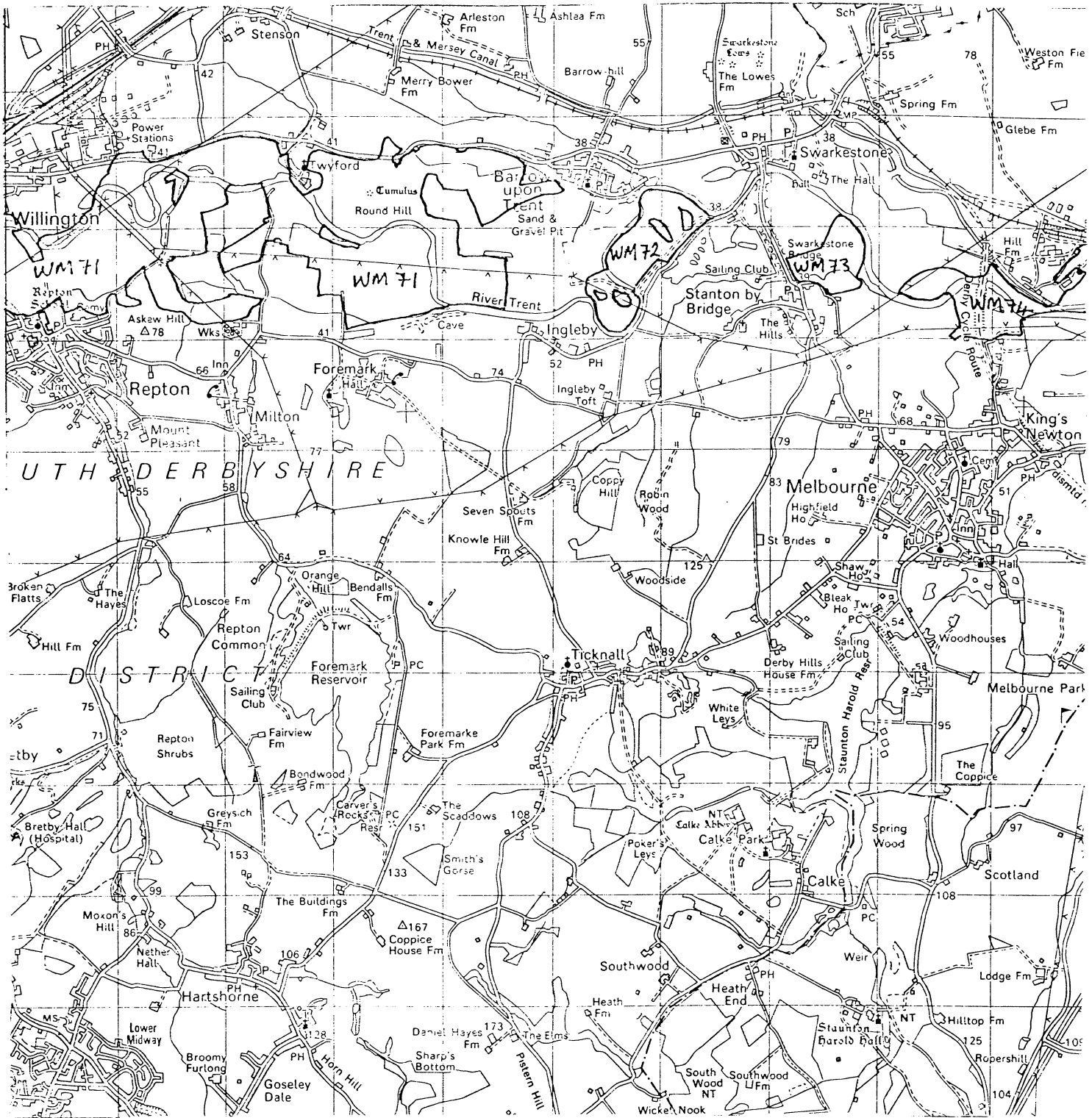


SK26 Sheet 119

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DERBYSHIRE



SK32 Sheet 128

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DERBYSHIRE

WM74 Ref. 700
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DERBYSHIRE



SK33 Sheet 128

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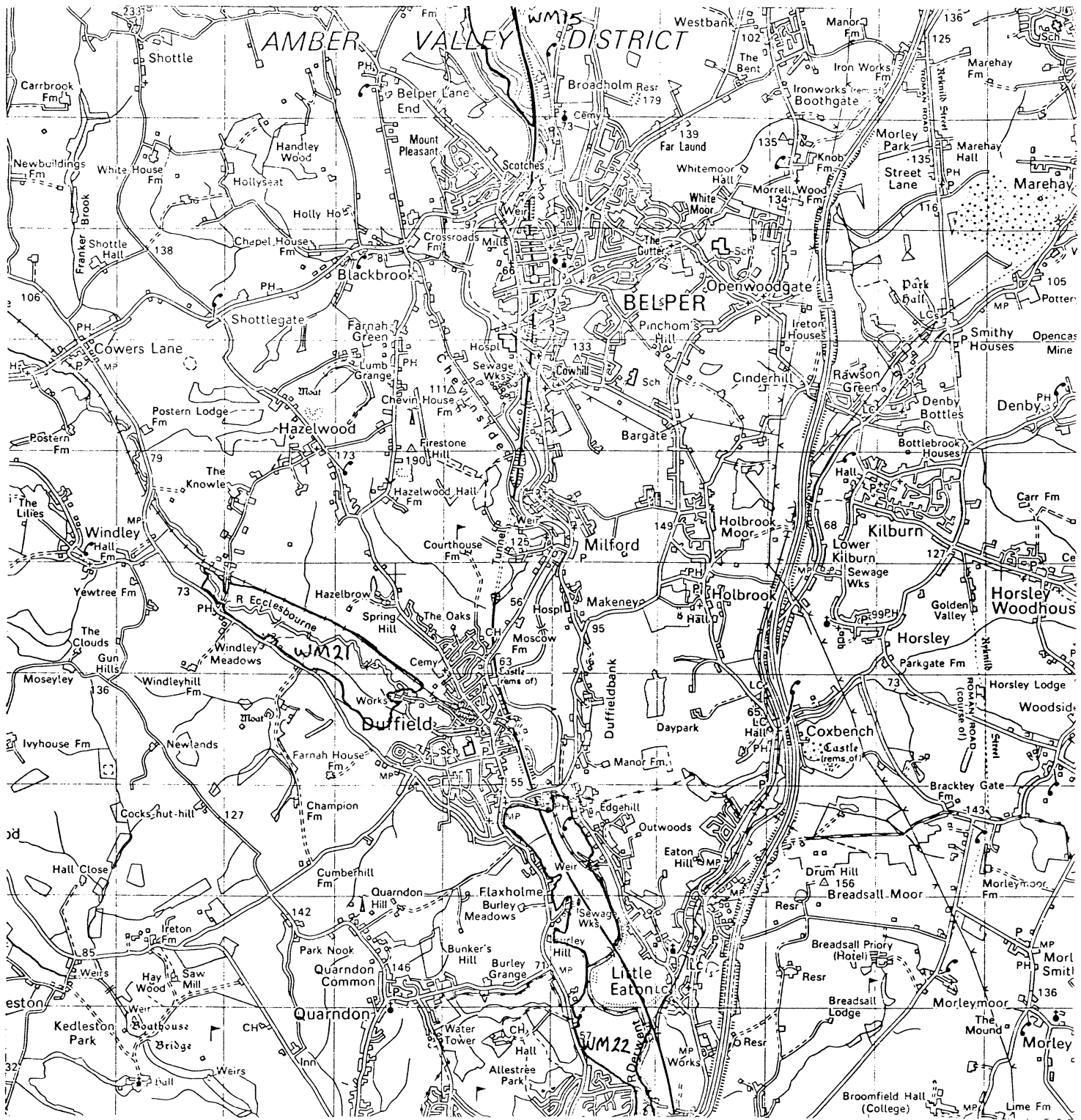
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DERBYSHIRE

WM75 Ref: 700

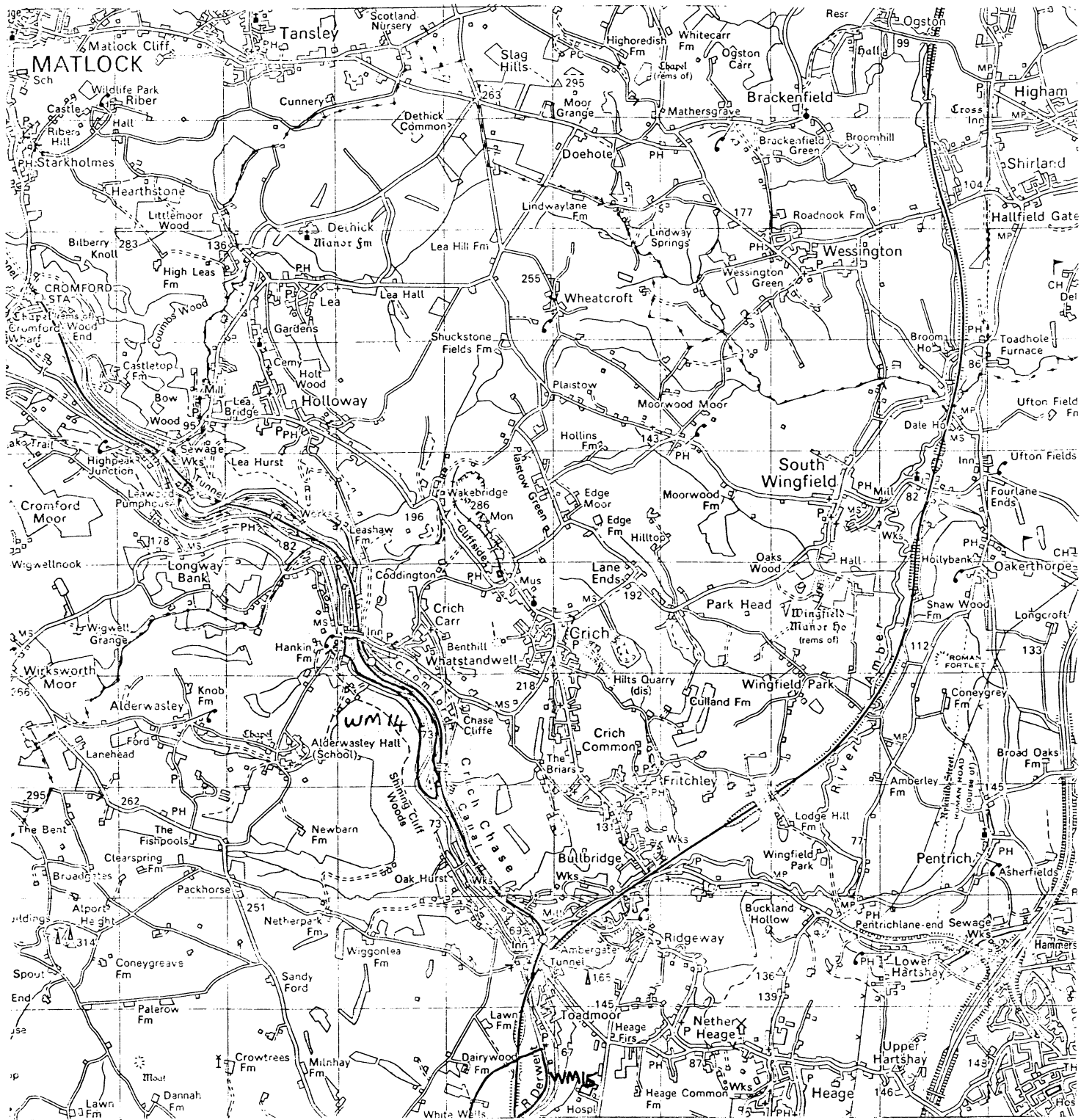
<input type="checkbox"/> P	<input checked="" type="checkbox"/> B
<input type="checkbox"/> I	<input type="checkbox"/> O

DERBYSHIRE



SK34 Sheet 119

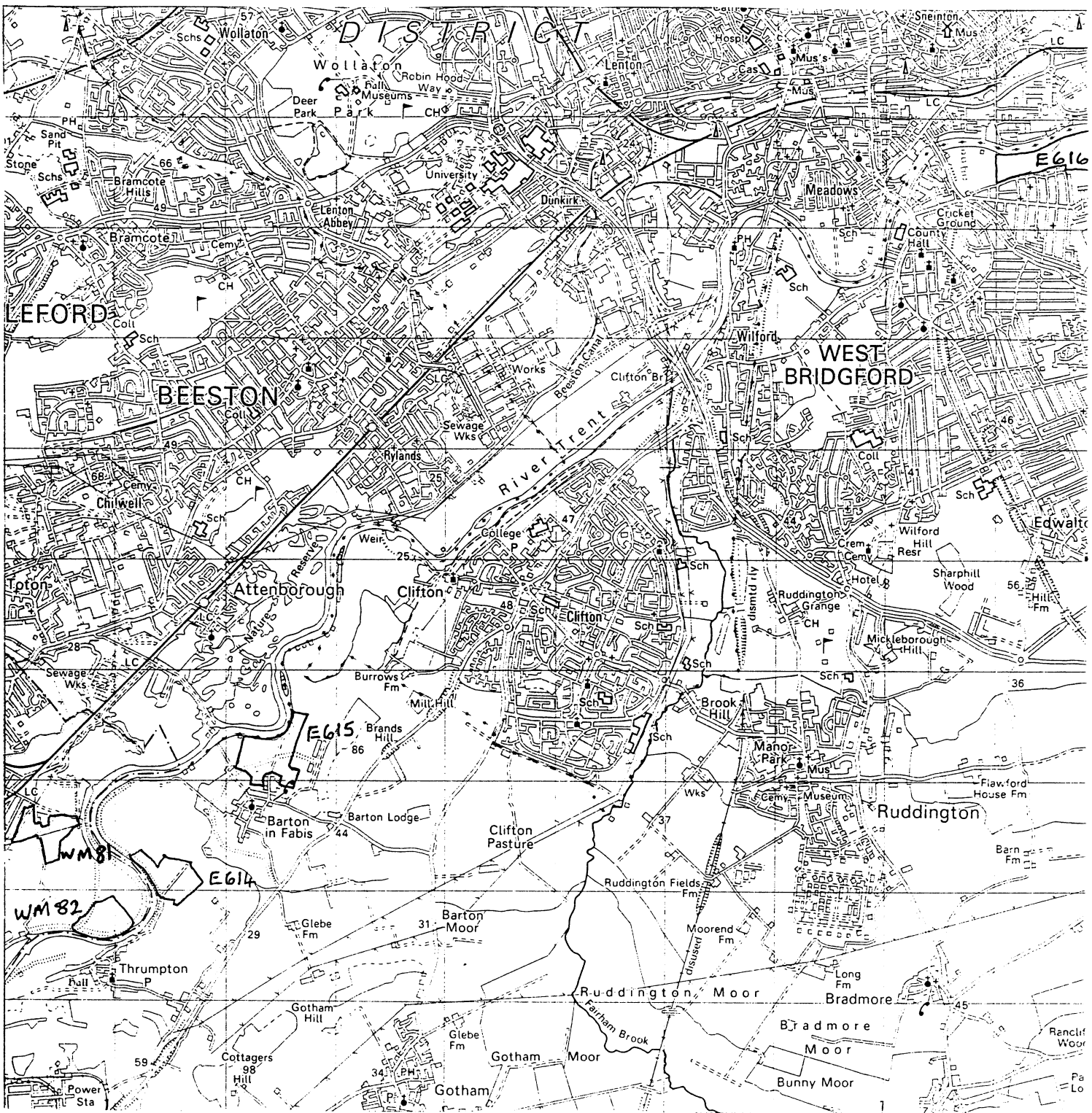
WM22 Ref. 700	
□ P	⊗ B
□ I	○
DERBYSHIRE	



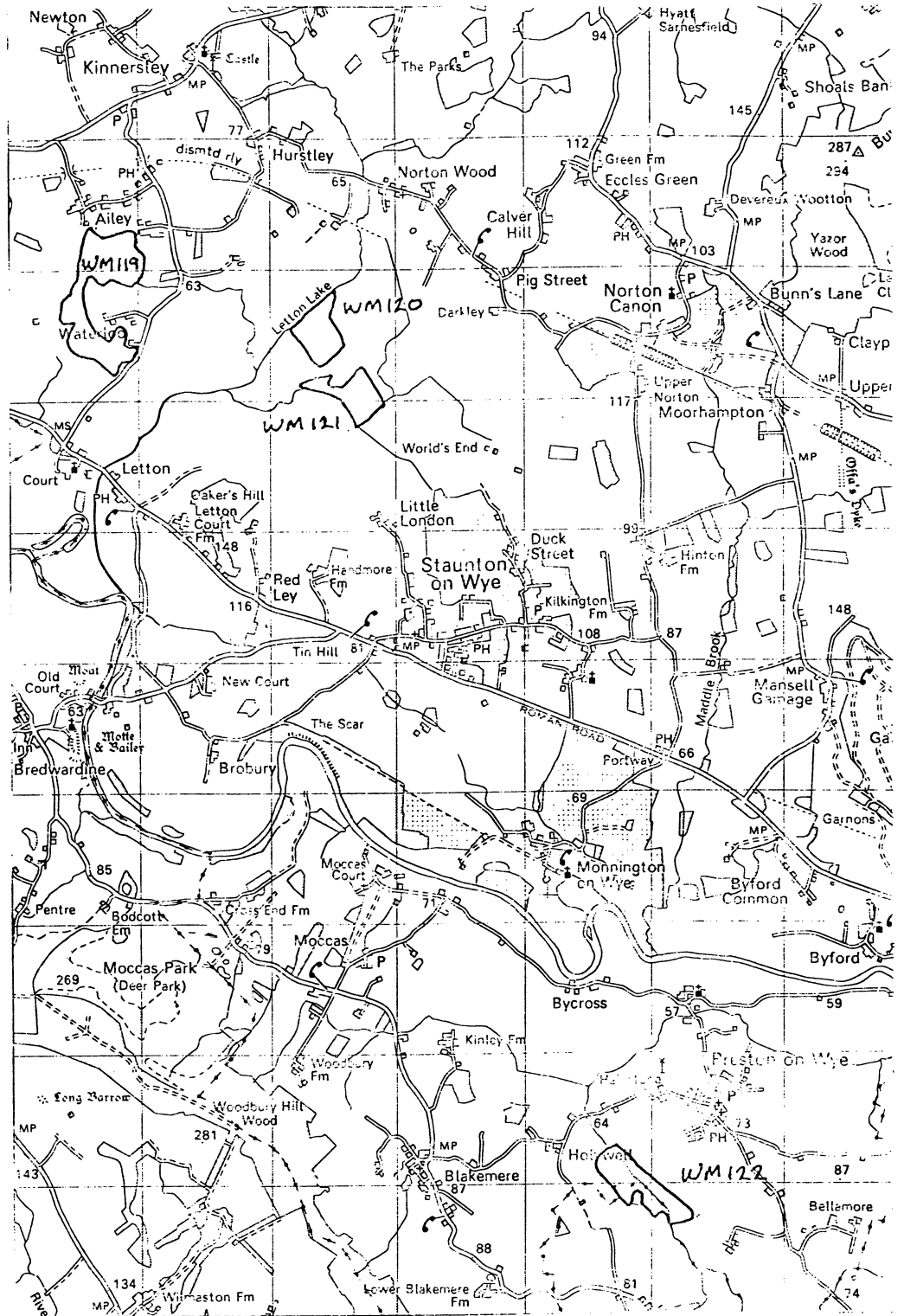
SK35 Sheet 119

WM14 Ref. 700

□	⊗
□	□
DERBYSHIRE	



SK53 Sheet 129



SO34 Sheet 149

WM119 Ref. 35

<input checked="" type="checkbox"/>	P	<input type="checkbox"/>	B
<input type="checkbox"/>	I	<input type="checkbox"/>	O

HEREFORDWORCS

WM122 Ref. 179

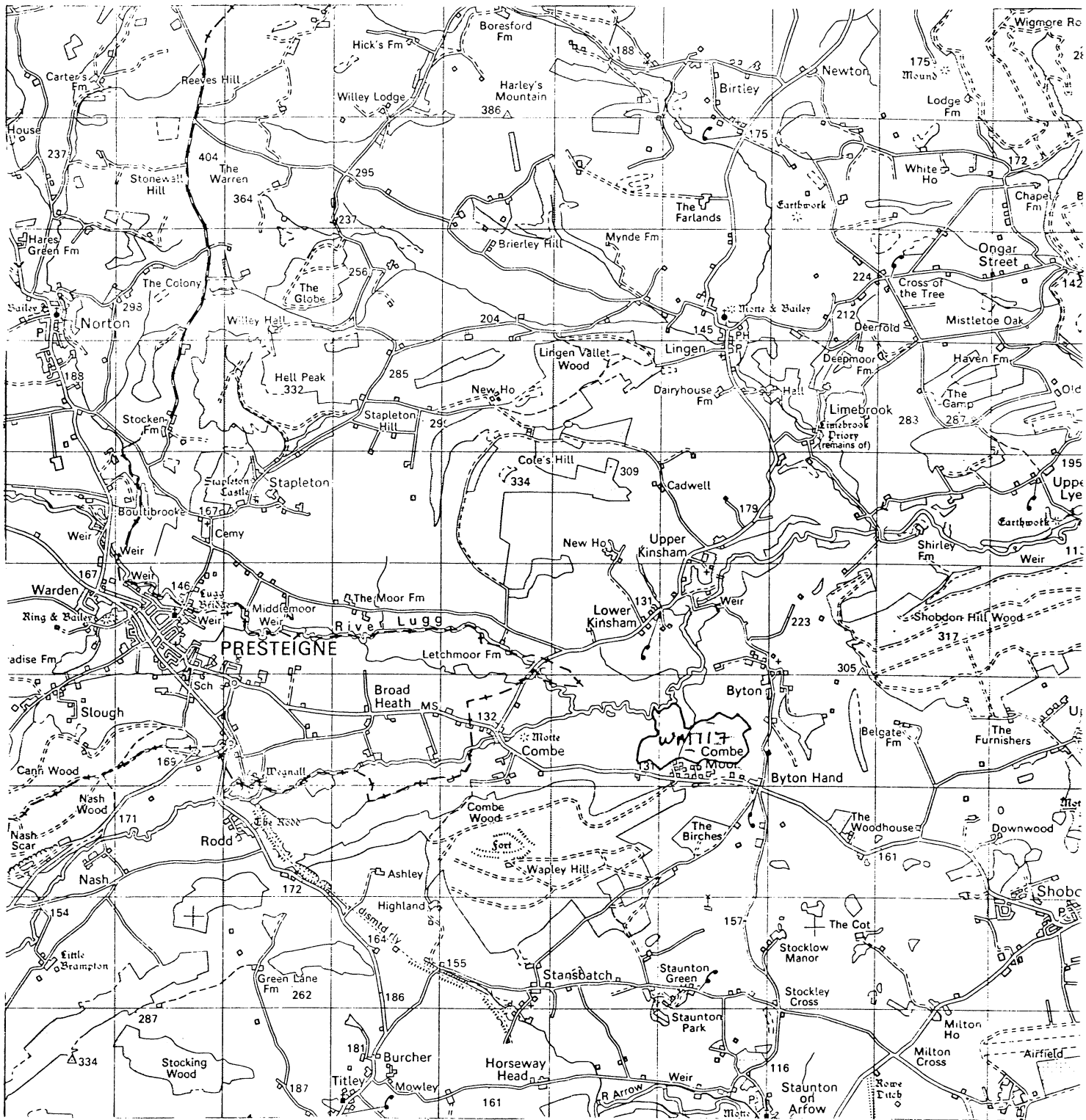
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<input type="checkbox"/>	I	<input type="checkbox"/>	O

HEREFORDWORCS

WM122 Ref. 663

<input type="checkbox"/>	P	<input type="checkbox"/>	B
<input checked="" type="checkbox"/>	I	<input type="checkbox"/>	O

HEREFORDWORCS



SO36 Sheet 137

WM117 Ref: 179

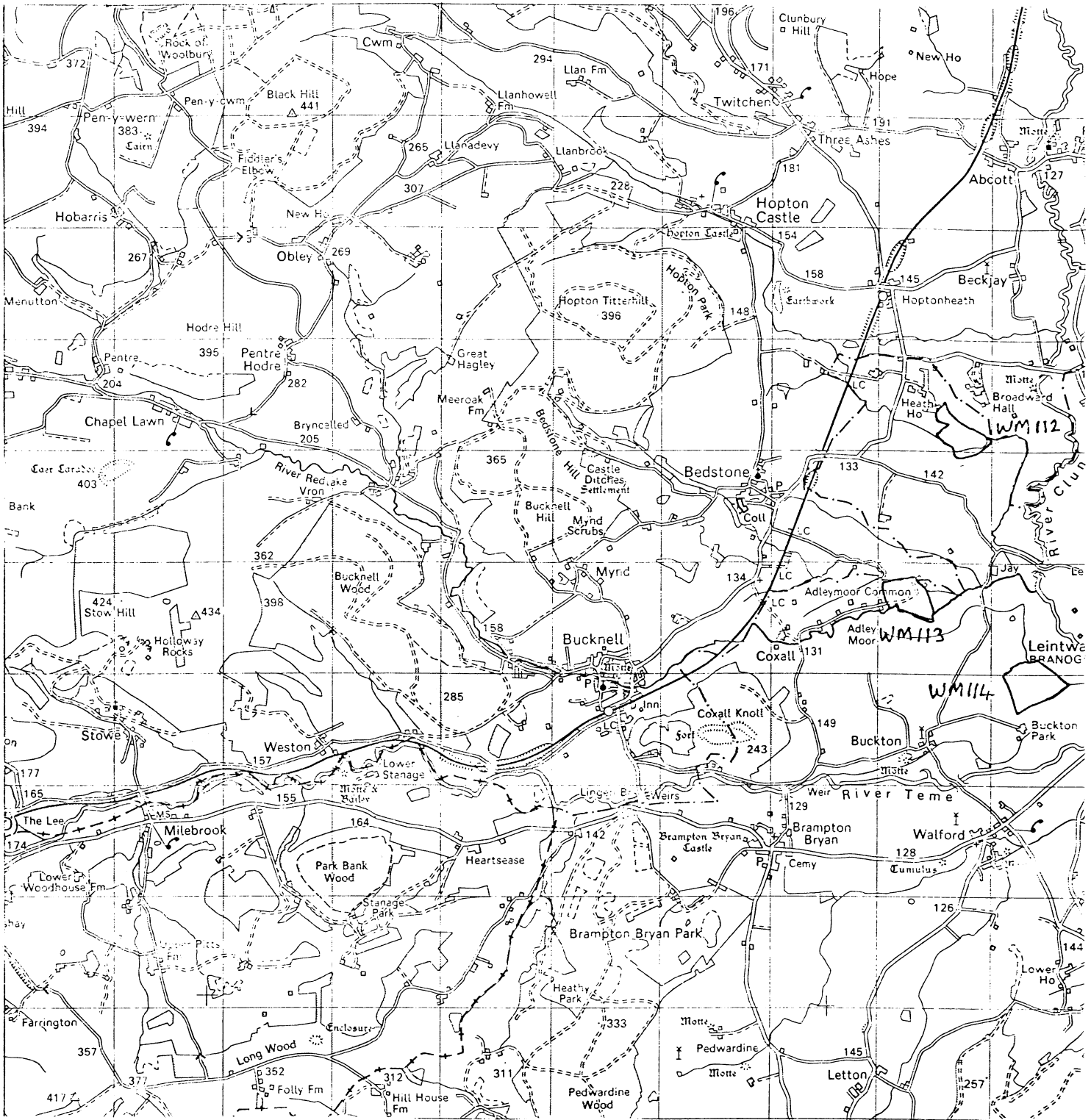
☒	□	P	B
□	□	I	O

HEREFORD/WORCS

WM117 Ref: 199

□	☒	P	B
□	□	I	O

HEREFORD/WORCS

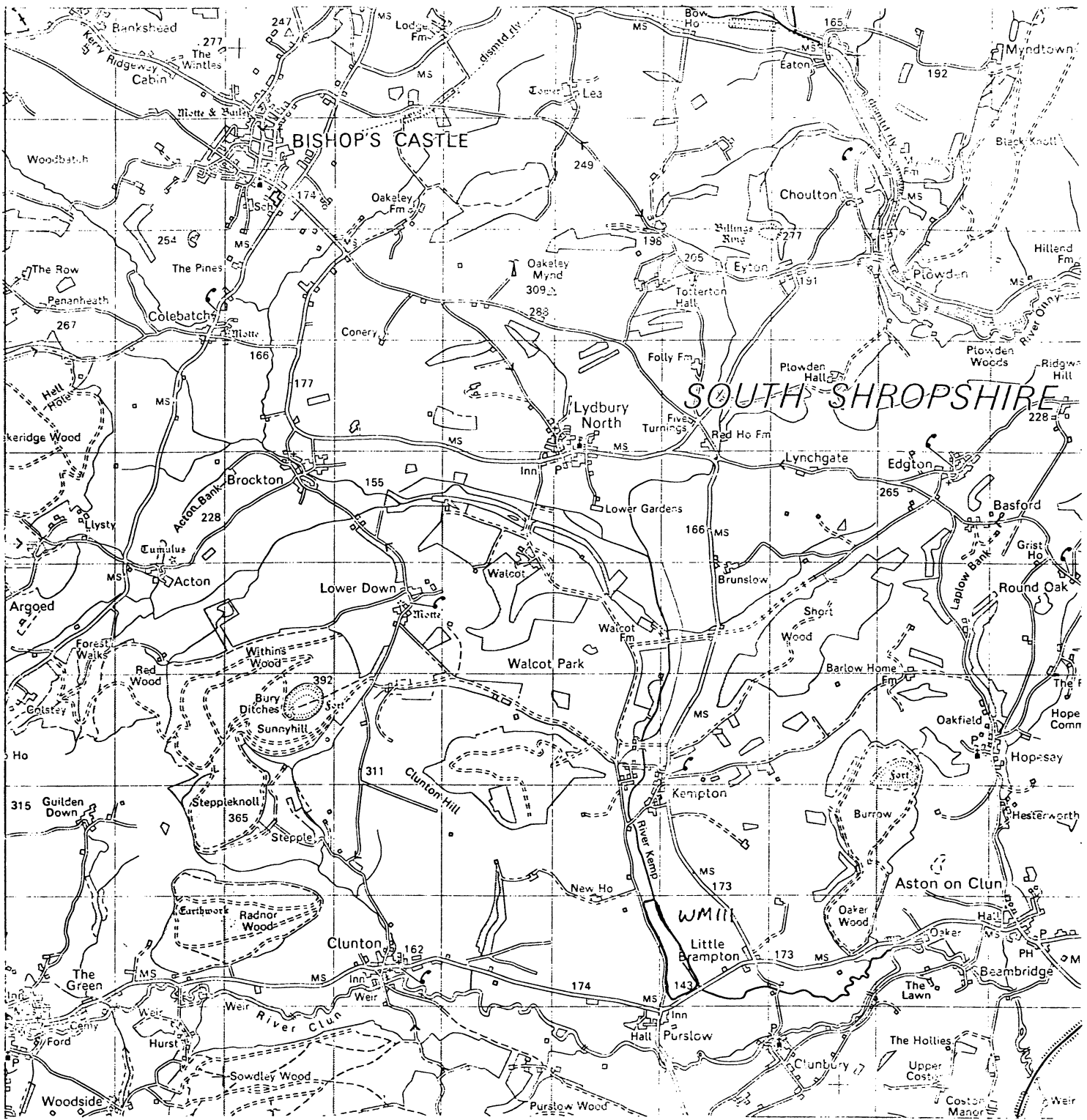


SO37 Sheet 137

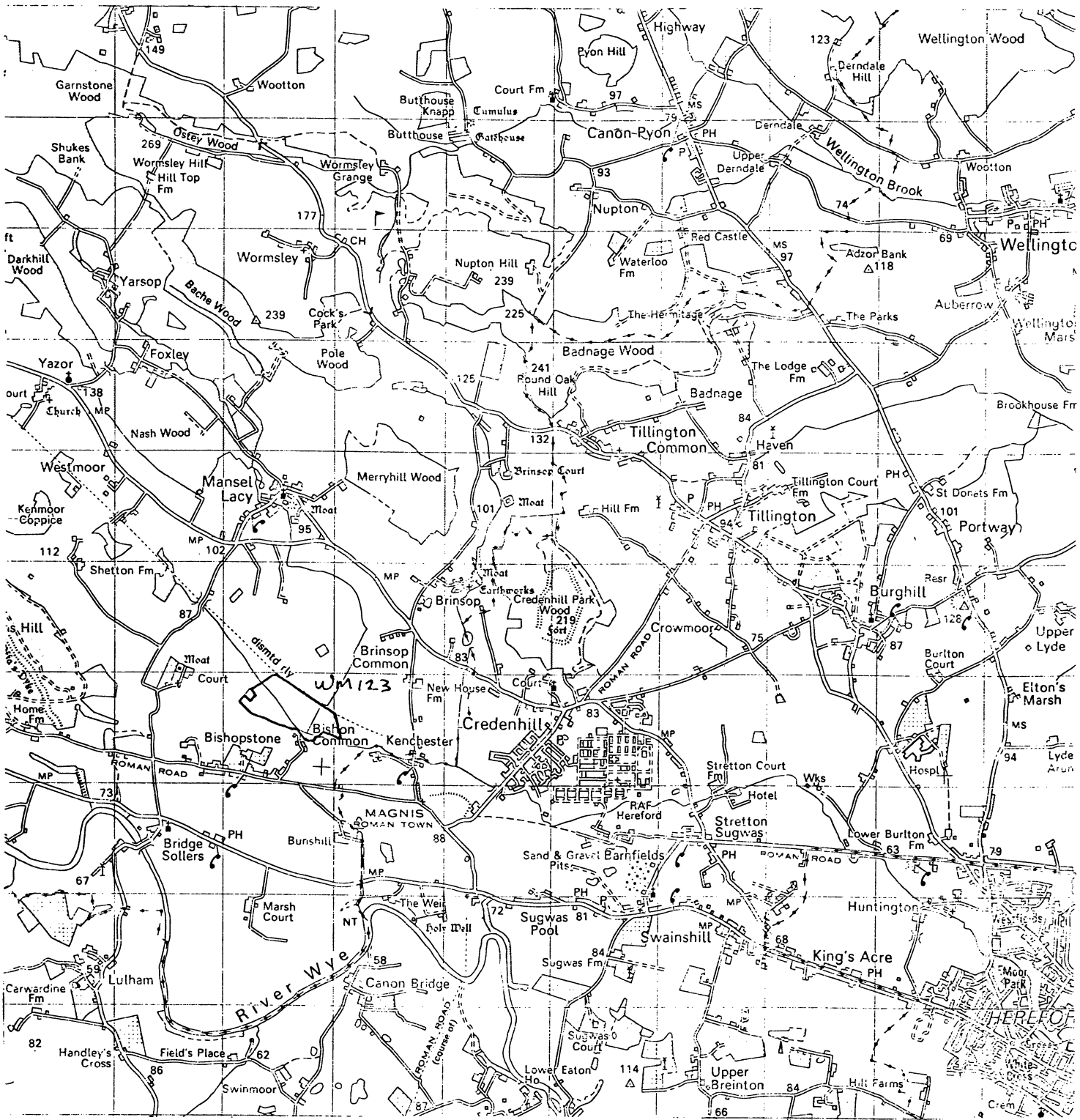
WM114 Ref: 704

□ P	⊗ B
□ I	□ O

HEREFORD/WORCS



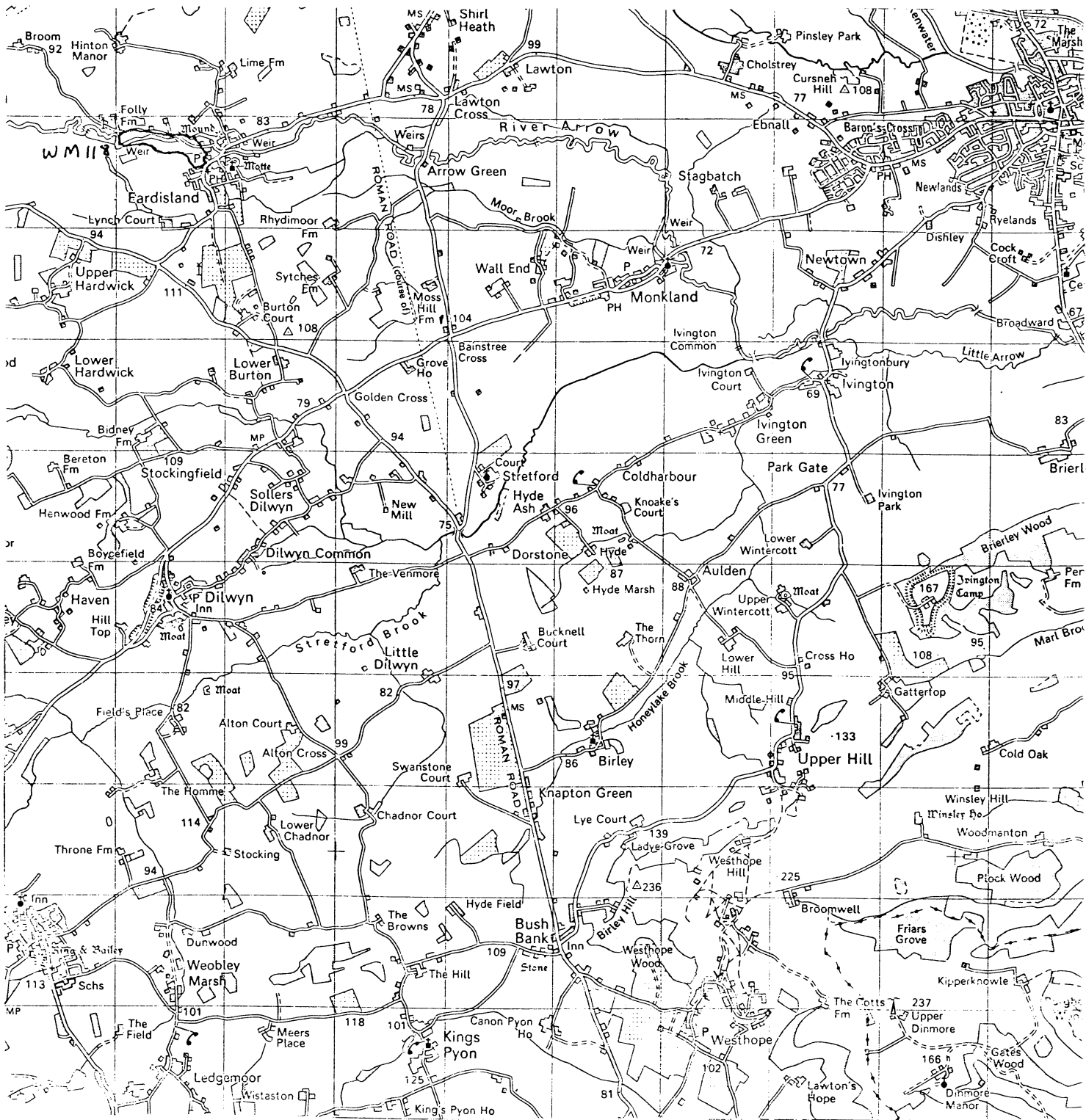
SO38 Sheet 137



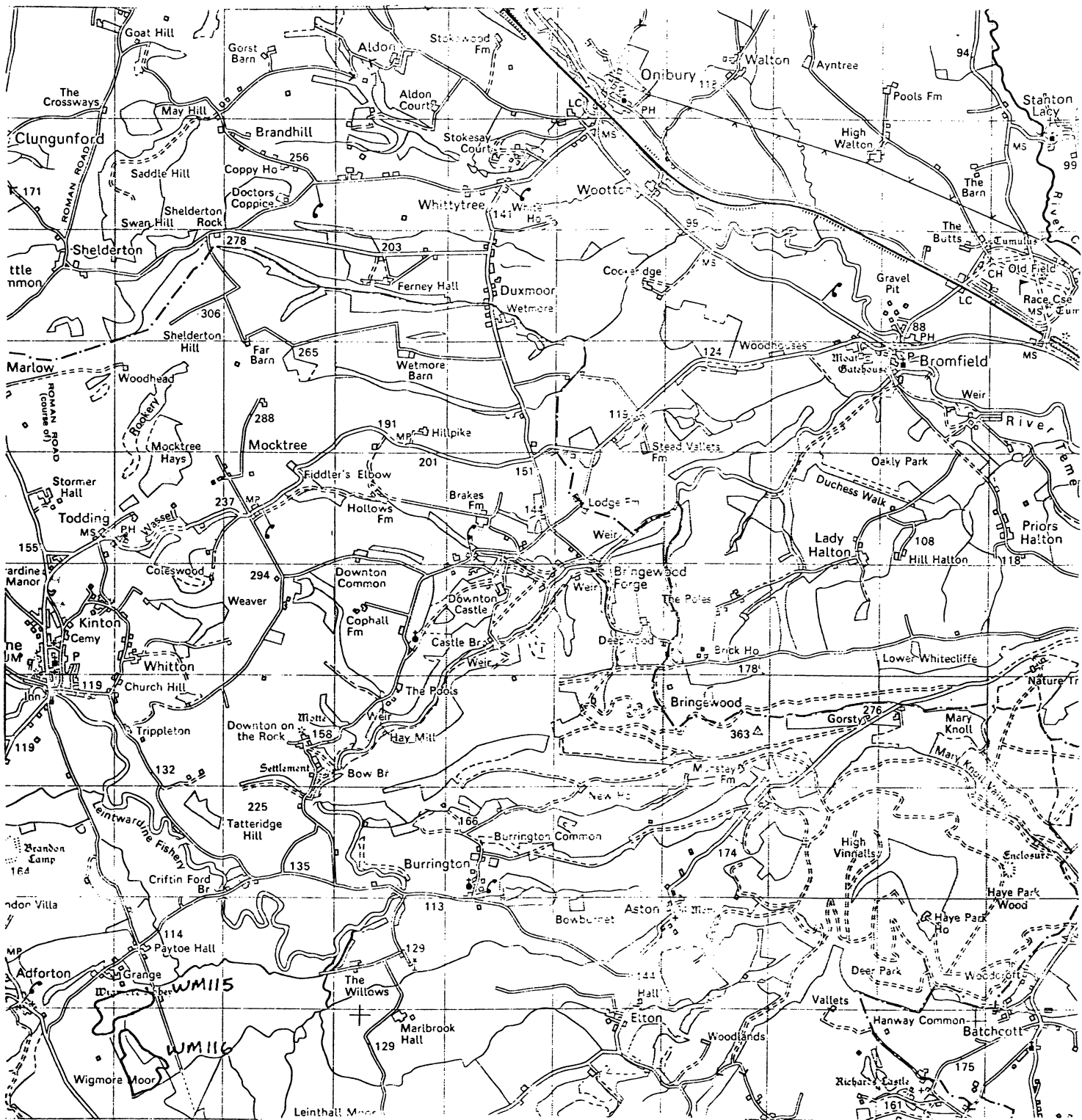
SO44 Sheet 149

WM123 Ref. 35
<input checked="" type="checkbox"/> P <input type="checkbox"/> B <input type="checkbox"/> I <input type="checkbox"/> O
HEREFORD/WORCS

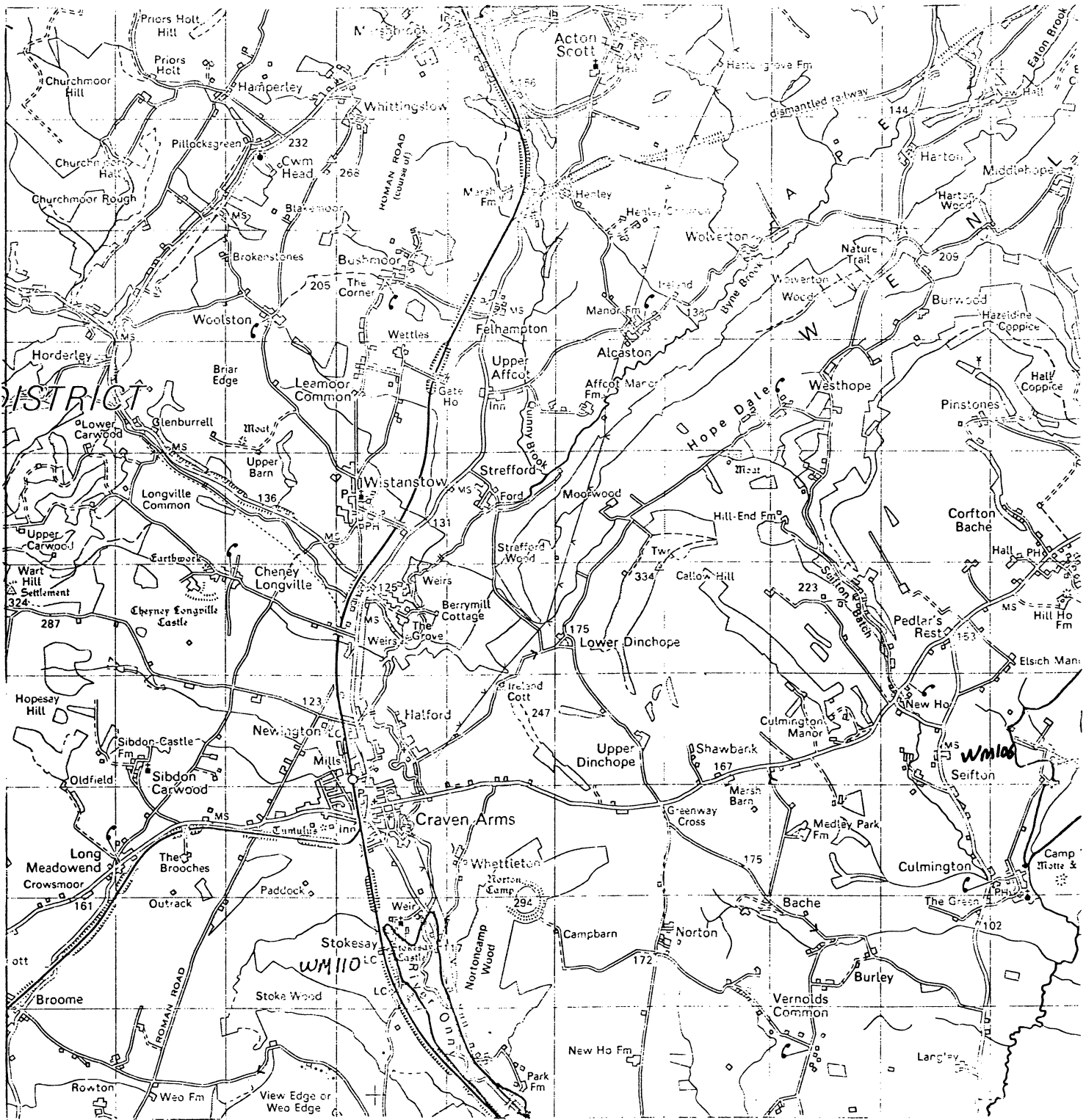
WM123 Ref. 179
<input checked="" type="checkbox"/> P <input type="checkbox"/> B <input type="checkbox"/> I <input type="checkbox"/> O
HEREFORD/WORCS



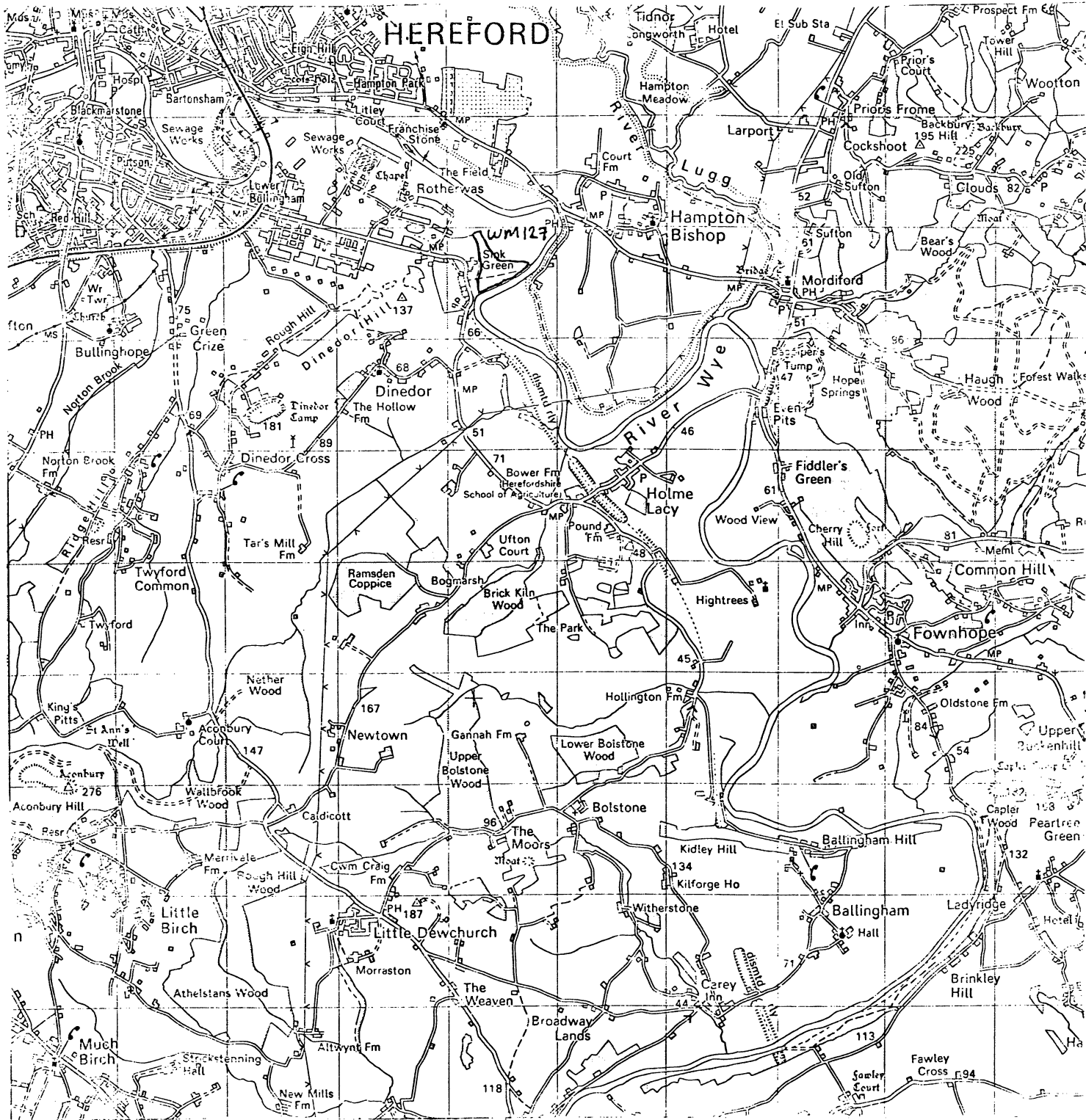
SO45 Sheet 149



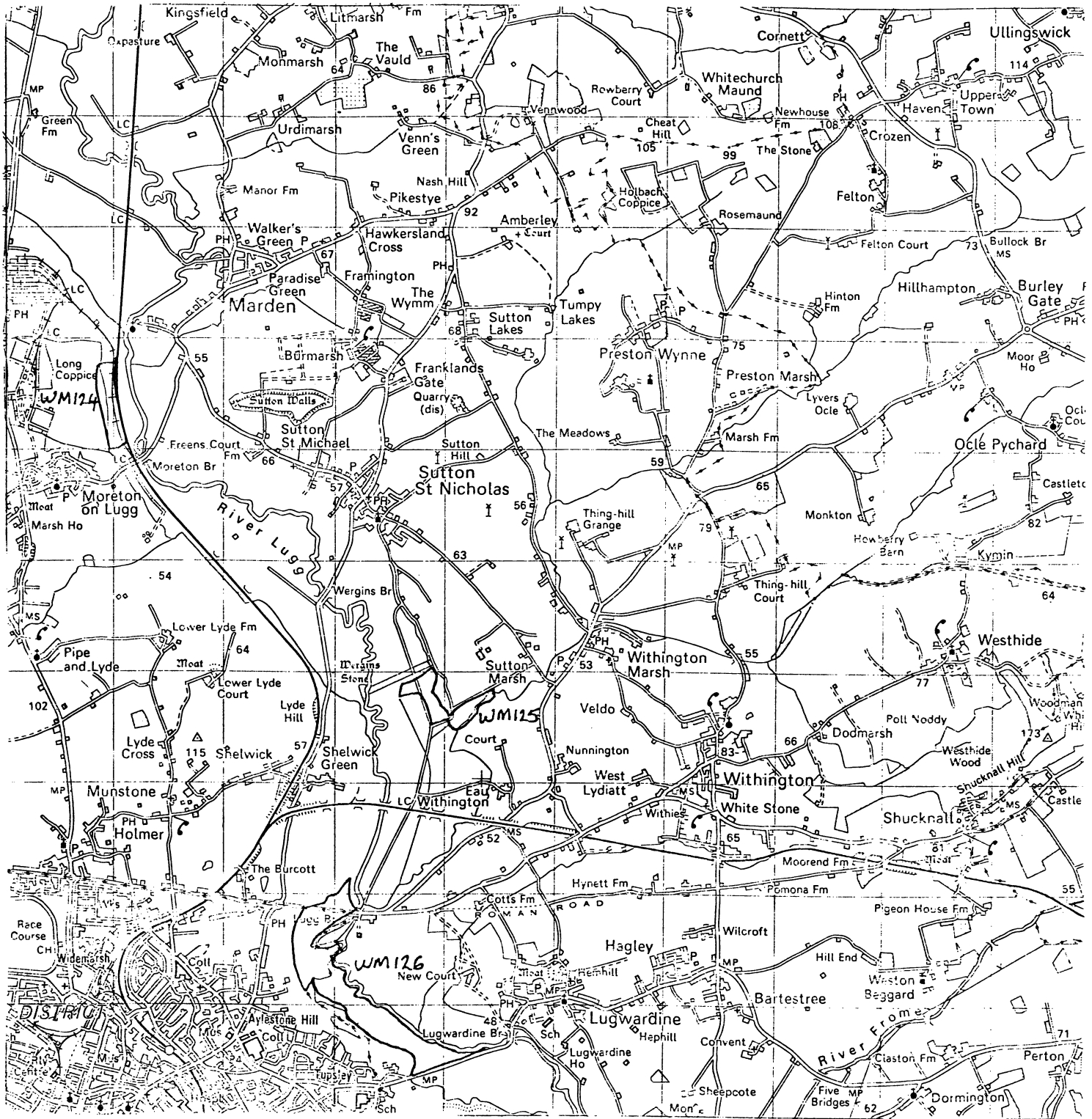
SO47 Sheet 137



SO48 Sheet 137



SO53 Sheet 149



SO54 Sheet 149

WM126 Ref. 35

<input checked="" type="checkbox"/>	P	<input type="checkbox"/>	B
<input type="checkbox"/>	I	<input type="checkbox"/>	O

HEREFORD/WORCS

WM126 Ref. 179

<input checked="" type="checkbox"/>	P	<input type="checkbox"/>	B
<input type="checkbox"/>	I	<input type="checkbox"/>	O

HEREFORD/WORCS

WM126 Ref. 664

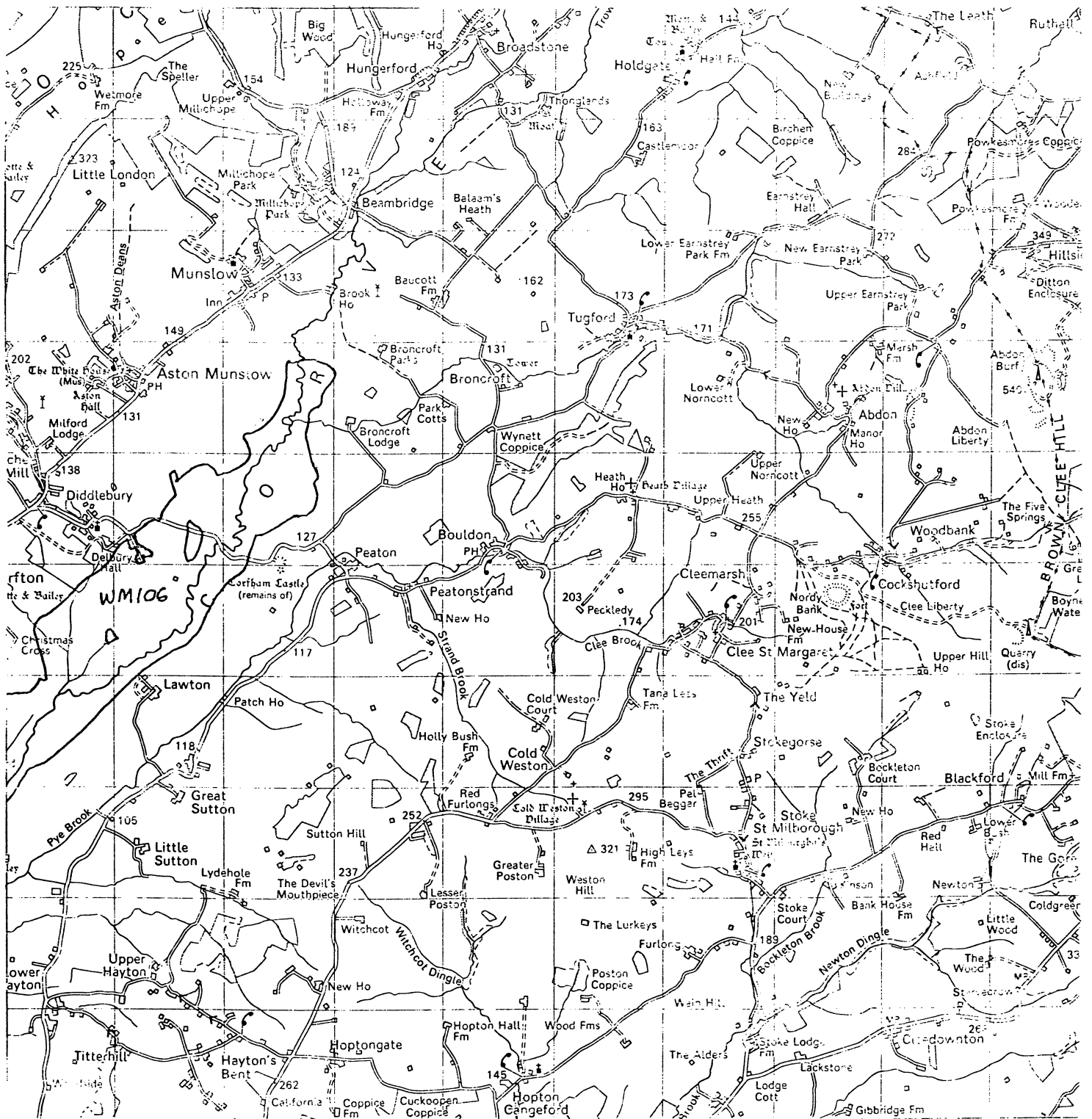
<input type="checkbox"/>	P	<input type="checkbox"/>	B
<input checked="" type="checkbox"/>	I	<input type="checkbox"/>	O

HEREFORD/WORCS

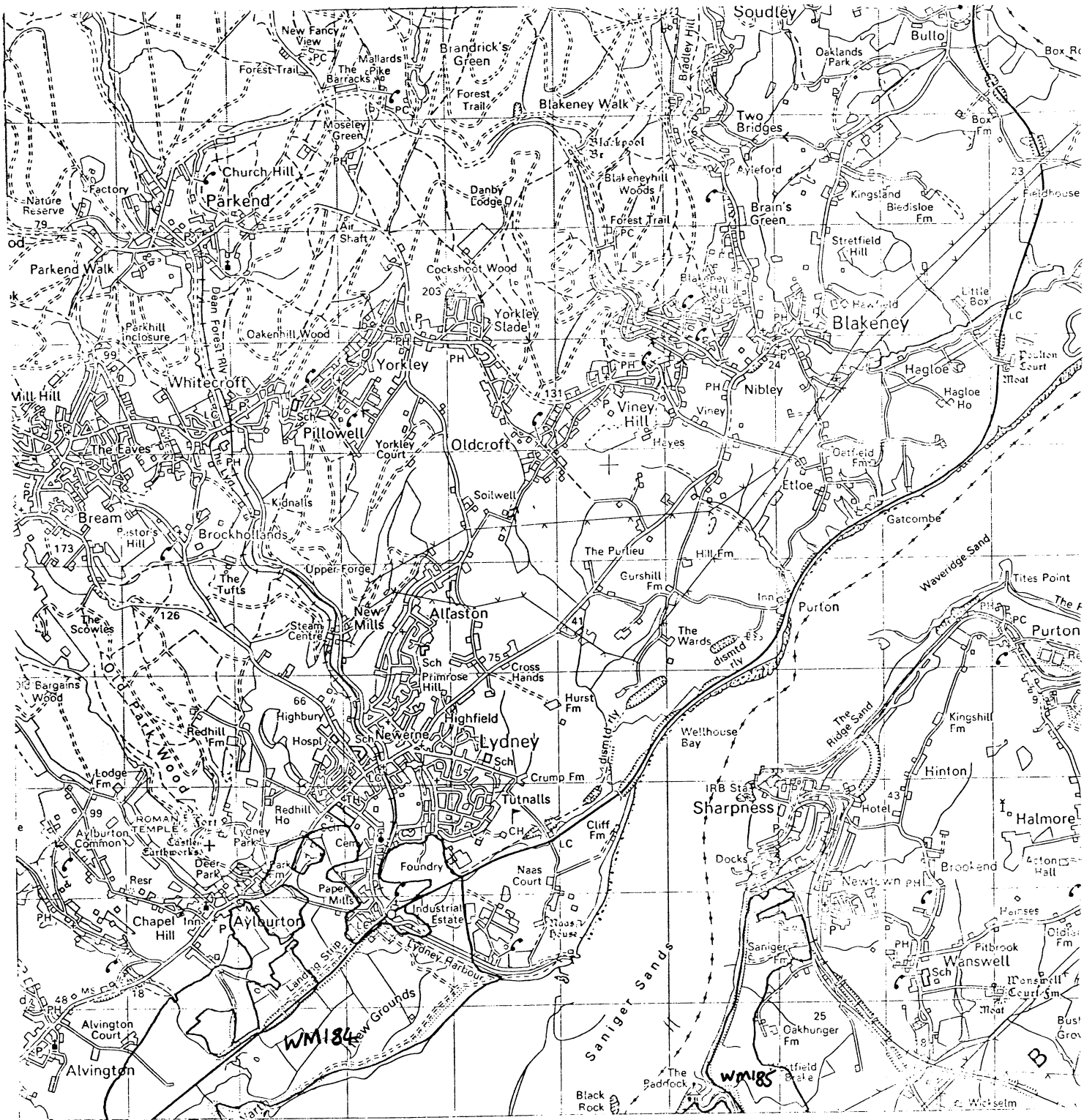
WM126 Ref. 704

<input type="checkbox"/>	P	<input checked="" type="checkbox"/>	B
<input type="checkbox"/>	I	<input type="checkbox"/>	O

HEREFORD/WORCS



SO58 Sheet 137



SO60 Sheet 162

WM185 Ref: 559

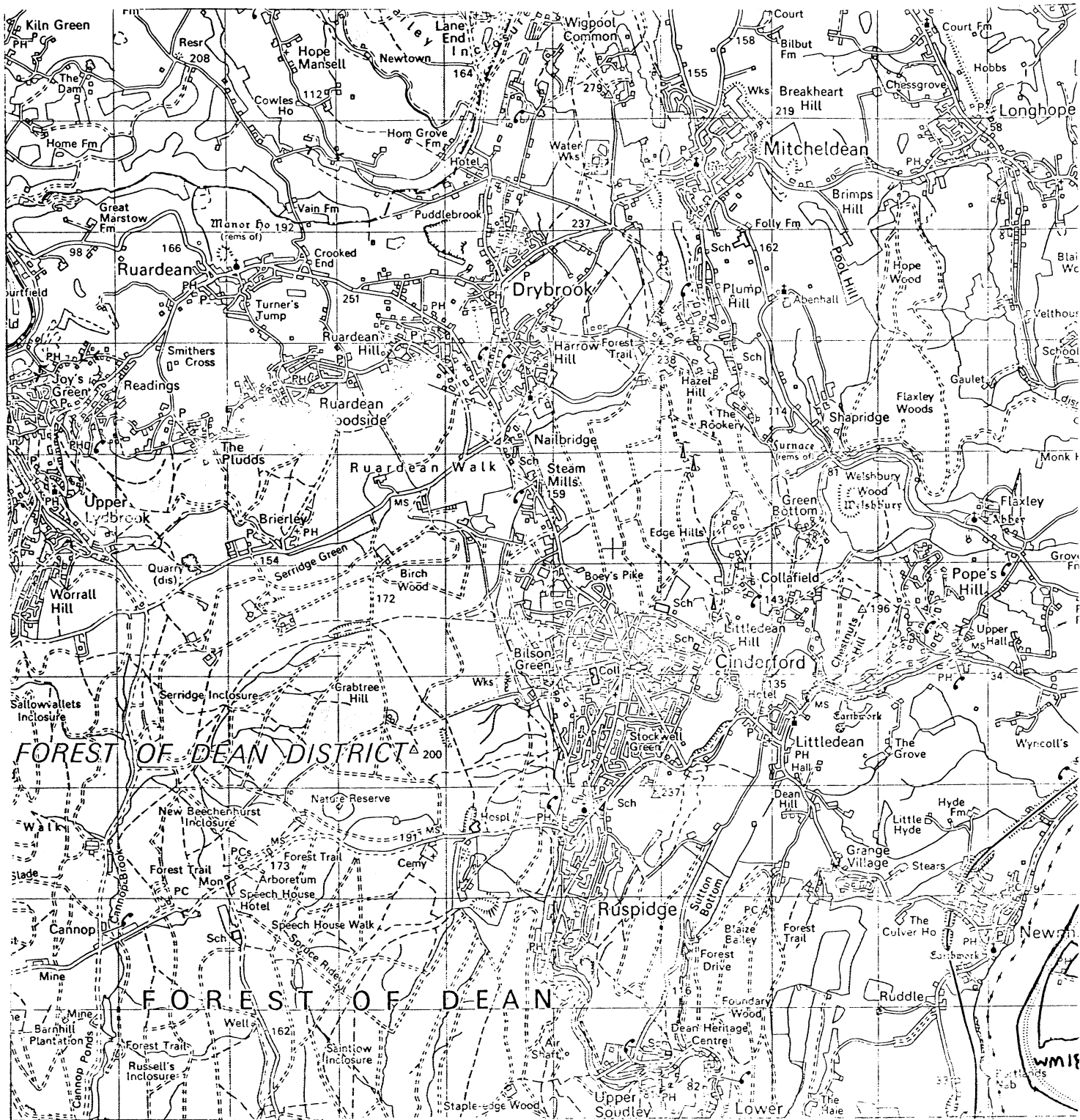
<input type="checkbox"/>	P	<input type="checkbox"/>	B
<input checked="" type="checkbox"/>	I	<input type="checkbox"/>	O

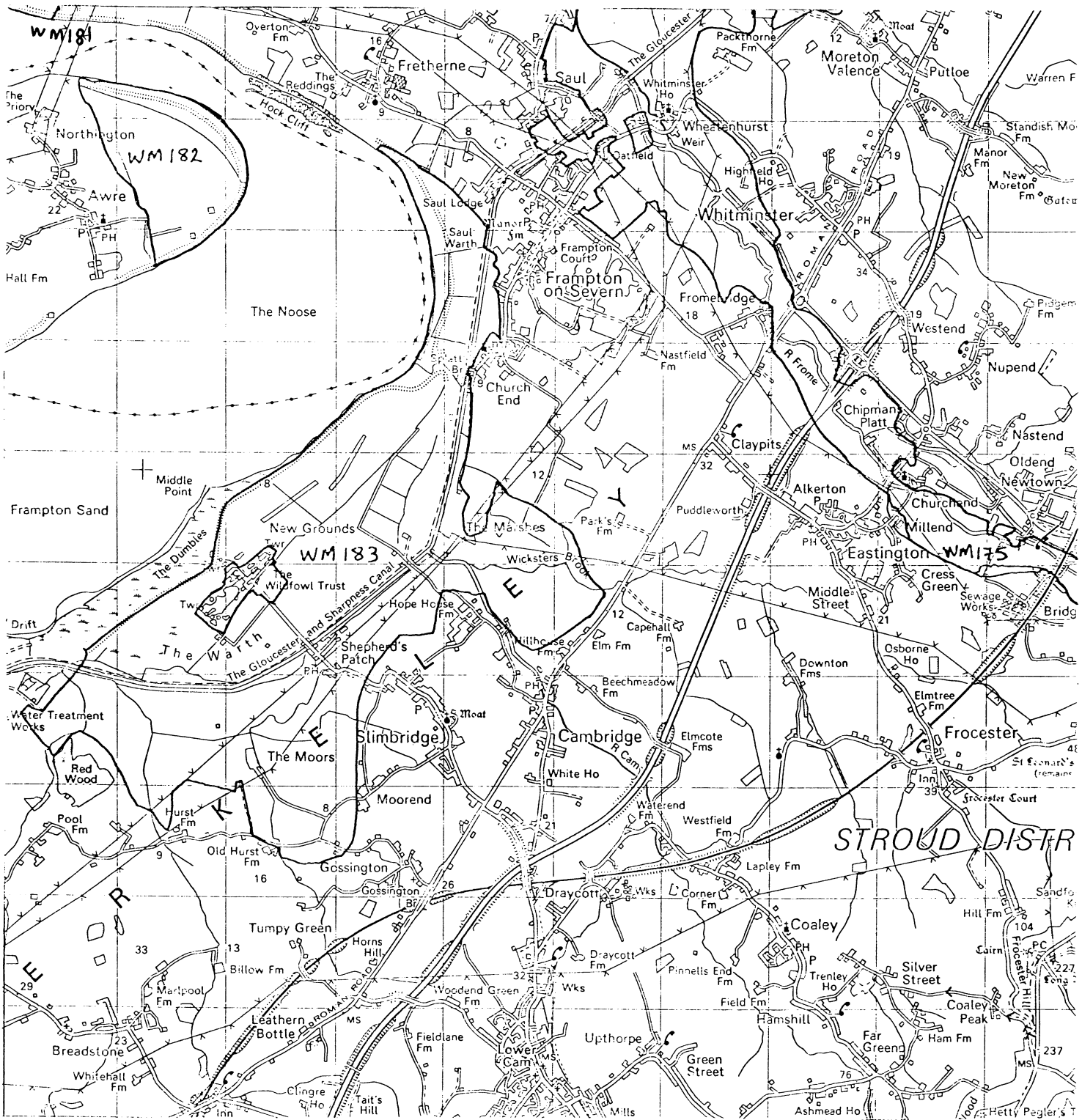
GLoucestershire

WM185 Ref: 684

<input type="checkbox"/>	P	<input type="checkbox"/>	B
<input checked="" type="checkbox"/>	I	<input type="checkbox"/>	O

GLoucestershire



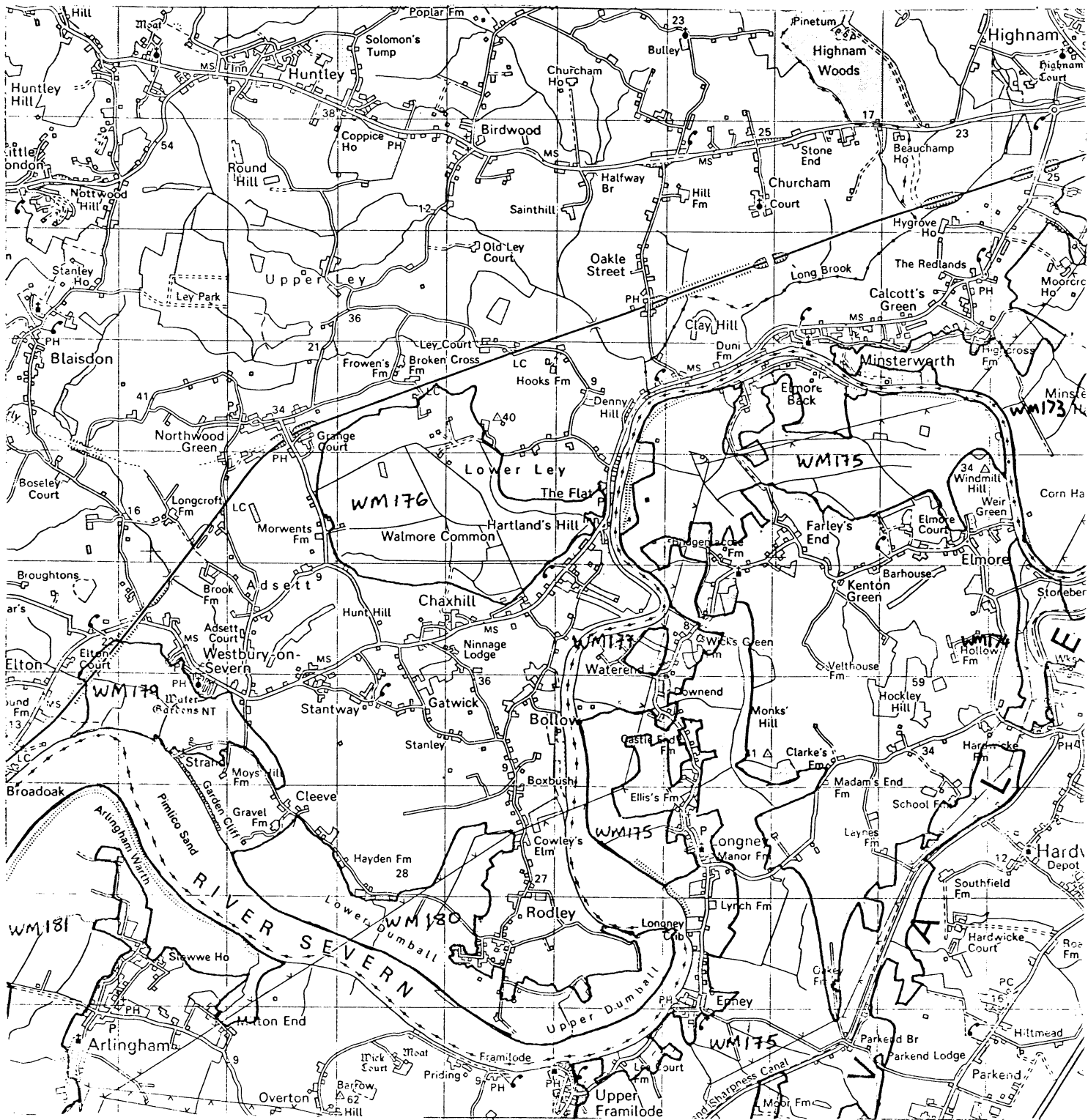


SO70 Sheet 162

WM175 Ref. 665			
□	P	□	B
□	×	I	□
GLOUCESTERSHIRE			

WM183 Ref. 35			
□	×	P	□
□	I	□	O
GLOUCESTERSHIRE			

WM183 Ref. 733			
□	P	×	B
□	I	□	O
GLOUCESTERSHIRE			



SO71

Sheet 162

WM173 Ref: 722

<input type="checkbox"/>	P	<input checked="" type="checkbox"/>	B
<input type="checkbox"/>	I	<input type="checkbox"/>	O

GLOUCESTERSHIRE

WM175 Ref: 665

<input type="checkbox"/>	P	<input type="checkbox"/>	B
<input checked="" type="checkbox"/>	I	<input type="checkbox"/>	O

GLOUCESTERSHIRE

WM175 Ref: 722

<input type="checkbox"/>	P	<input checked="" type="checkbox"/>	B
<input type="checkbox"/>	I	<input type="checkbox"/>	O

GLOUCESTERSHIRE

WM176 Ref: 722

<input type="checkbox"/>	P	<input checked="" type="checkbox"/>	B
<input type="checkbox"/>	I	<input type="checkbox"/>	O

GLOUCESTERSHIRE

WM180 Ref: 722

<input type="checkbox"/>	P	<input checked="" type="checkbox"/>	B
<input type="checkbox"/>	I	<input type="checkbox"/>	O

GLOUCESTERSHIRE

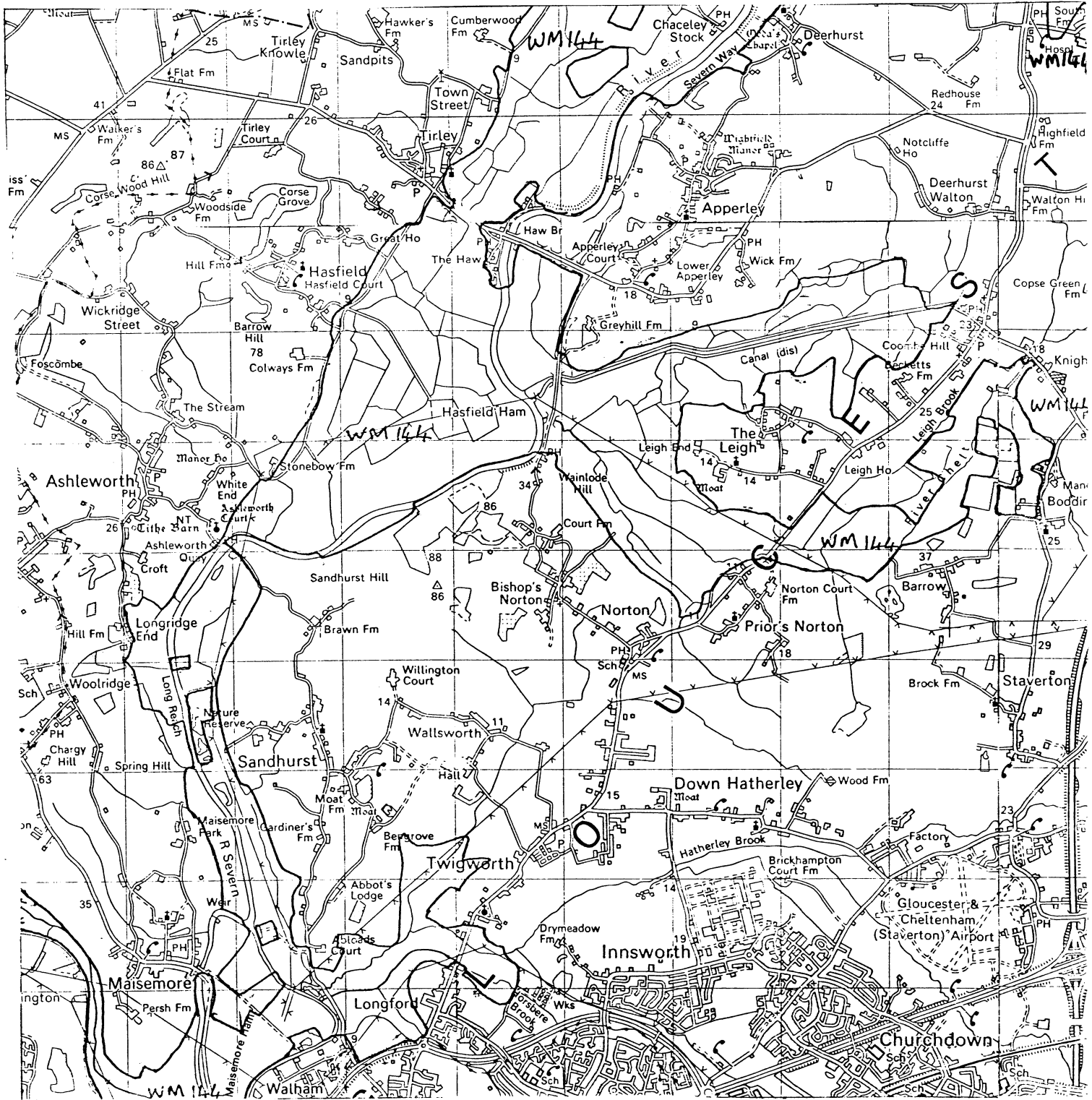


SO80 Sheets 162,163

WM175 Ref. 665

□	P	□	B
⊗	I	□	O

GLOUCESTERSHIRE



SO82 Sheets 162,163,150

WM144 Ref: 666

<input type="checkbox"/>	P	<input type="checkbox"/>	B
<input checked="" type="checkbox"/>	I	<input type="checkbox"/>	O

GLOUCESTERSHIRE

WM144 Ref: 668

<input type="checkbox"/>	P	<input type="checkbox"/>	B
<input checked="" type="checkbox"/>	I	<input type="checkbox"/>	O

GLOUCESTERSHIRE

WM144 Ref: 669

<input type="checkbox"/>	P	<input type="checkbox"/>	B
<input checked="" type="checkbox"/>	I	<input type="checkbox"/>	O

GLOUCESTERSHIRE

WM144 Ref: 671

<input type="checkbox"/>	P	<input type="checkbox"/>	B
<input checked="" type="checkbox"/>	I	<input type="checkbox"/>	O

GLOUCESTERSHIRE

WM144 Ref: 35

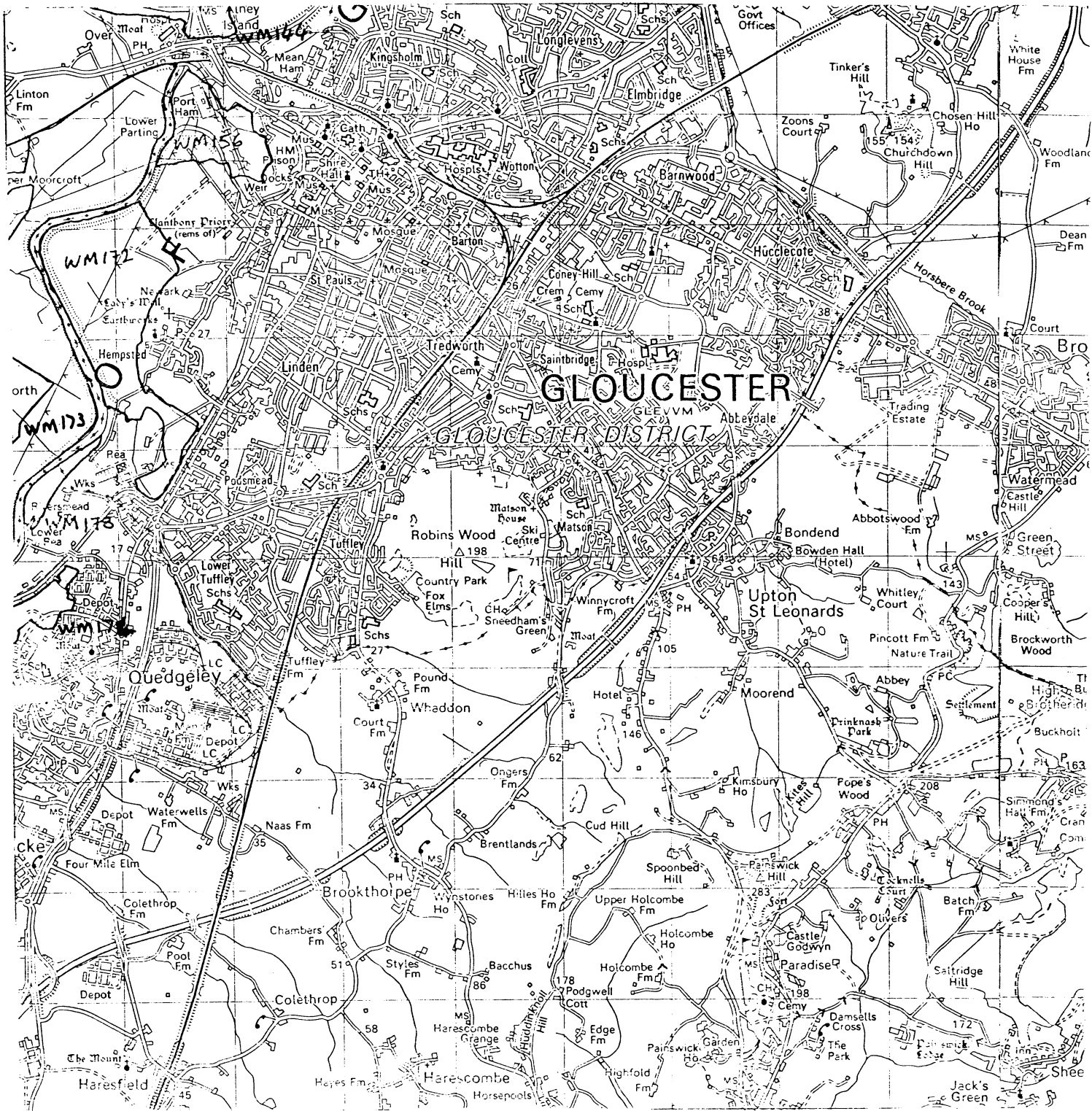
<input checked="" type="checkbox"/>	P	<input type="checkbox"/>	B
<input type="checkbox"/>	I	<input type="checkbox"/>	O

GLOUCESTERSHIRE

WM144 Ref: 722

<input type="checkbox"/>	P	<input checked="" type="checkbox"/>	B
<input type="checkbox"/>	I	<input type="checkbox"/>	O

GLOUCESTERSHIRE



SO81 Sheets 162,163

WM173 Ref: 722

<input type="checkbox"/> P	<input checked="" type="checkbox"/> B
<input type="checkbox"/> I	<input type="checkbox"/> O

GLOUCESTERSHIRE

WM144 Ref: 666

<input type="checkbox"/> P	<input type="checkbox"/> B
<input checked="" type="checkbox"/> I	<input type="checkbox"/> O

GLOUCESTERSHIRE

WM144 Ref: 668

<input type="checkbox"/> P	<input type="checkbox"/> B
<input checked="" type="checkbox"/> I	<input type="checkbox"/> O

GLOUCESTERSHIRE

WM144 Ref: 669

<input type="checkbox"/> P	<input type="checkbox"/> B
<input checked="" type="checkbox"/> I	<input type="checkbox"/> O

GLOUCESTERSHIRE

WM144 Ref: 671

<input type="checkbox"/> P	<input type="checkbox"/> B
<input checked="" type="checkbox"/> I	<input type="checkbox"/> O

GLOUCESTERSHIRE

WM144 Ref: 35

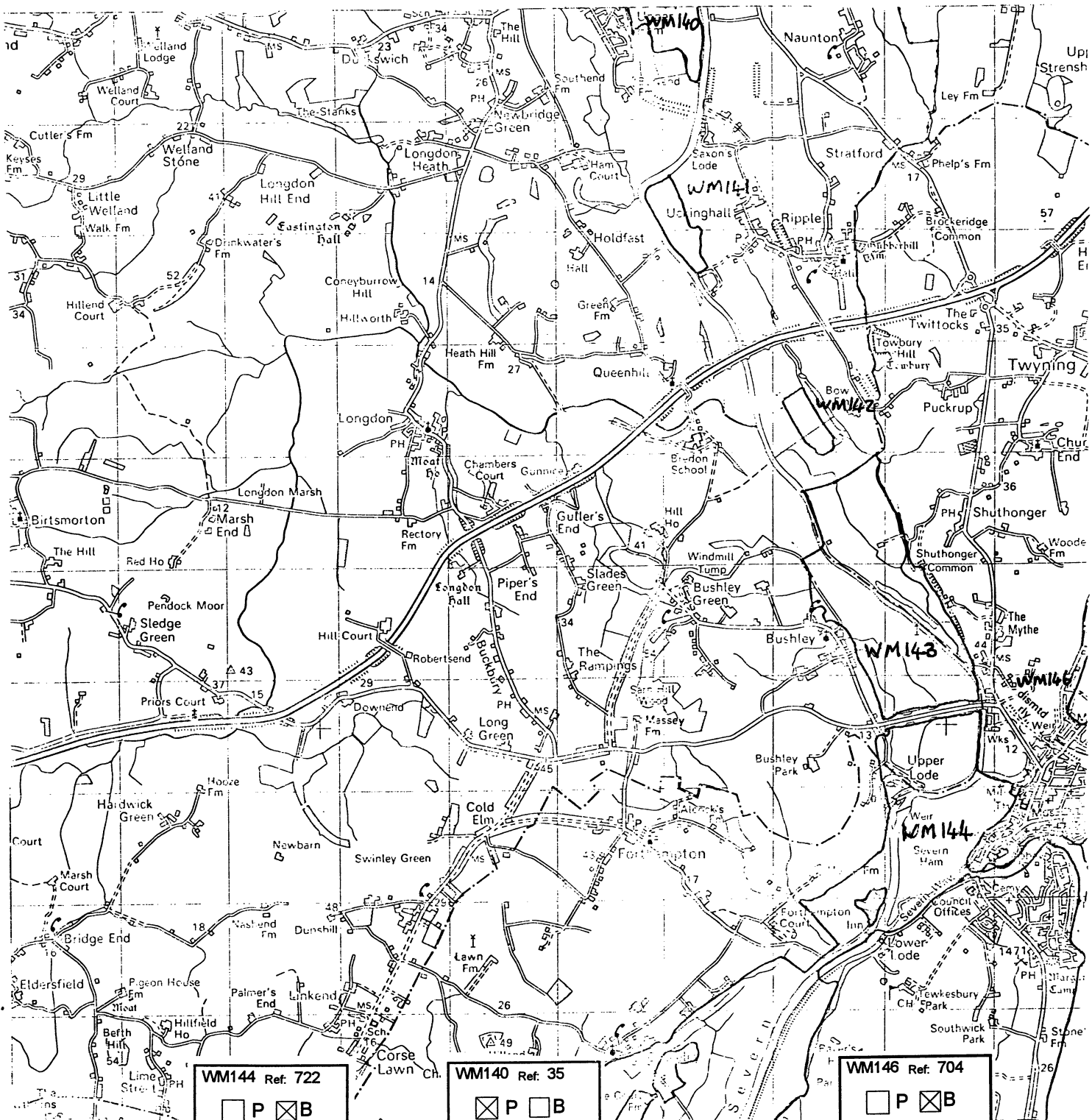
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<input type="checkbox"/> I	<input type="checkbox"/> O

GLOUCESTERSHIRE

WM144 Ref: 722

<input type="checkbox"/> P	<input checked="" type="checkbox"/> B
<input type="checkbox"/> I	<input type="checkbox"/> O

GLOUCESTERSHIRE



WM144 Ref. 722

<input type="checkbox"/> P	<input checked="" type="checkbox"/> B
<input type="checkbox"/> I	<input type="checkbox"/> O

GLOUCESTERSHIRE

WM140 Ref. 35

<input checked="" type="checkbox"/> P	<input type="checkbox"/> B
<input type="checkbox"/> I	<input type="checkbox"/> O

HEREFORDWORCS

WM146 Ref. 704

<input type="checkbox"/> P	<input checked="" type="checkbox"/> B
<input type="checkbox"/> I	<input type="checkbox"/> O

HEREFORDWORCS

SO83 Sheet 150

WM140 Ref. 179

<input checked="" type="checkbox"/> P	<input type="checkbox"/> B
<input type="checkbox"/> I	<input type="checkbox"/> O

HEREFORDWORCS

WM142 Ref. 219

<input type="checkbox"/> P	<input checked="" type="checkbox"/> B
<input type="checkbox"/> I	<input type="checkbox"/> O

HEREFORDWORCS

WM143 Ref. 35

<input checked="" type="checkbox"/> P	<input type="checkbox"/> B
<input type="checkbox"/> I	<input type="checkbox"/> O

HEREFORDWORCS

WM143 Ref. 219

<input type="checkbox"/> P	<input checked="" type="checkbox"/> B
<input type="checkbox"/> I	<input type="checkbox"/> O

HEREFORDWORCS

WM144 Ref. 666

<input type="checkbox"/> P	<input type="checkbox"/> B
<input checked="" type="checkbox"/> I	<input type="checkbox"/> O

GLOUCESTERSHIRE

WM144 Ref. 668

<input type="checkbox"/> P	<input type="checkbox"/> B
<input checked="" type="checkbox"/> I	<input type="checkbox"/> O

GLOUCESTERSHIRE

WM144 Ref. 669

<input type="checkbox"/> P	<input type="checkbox"/> B
<input checked="" type="checkbox"/> I	<input type="checkbox"/> O

GLOUCESTERSHIRE

WM144 Ref. 671

<input type="checkbox"/> P	<input type="checkbox"/> B
<input checked="" type="checkbox"/> I	<input type="checkbox"/> O

GLOUCESTERSHIRE

WM146 Ref. 30

<input checked="" type="checkbox"/> P	<input type="checkbox"/> B
<input type="checkbox"/> I	<input type="checkbox"/> O

HEREFORDWORCS

WM144 Ref. 35

<input checked="" type="checkbox"/> P	<input type="checkbox"/> B
<input type="checkbox"/> I	<input type="checkbox"/> O

GLOUCESTERSHIRE

WM140 Ref. 30

<input checked="" type="checkbox"/> P	<input type="checkbox"/> B
<input type="checkbox"/> I	<input type="checkbox"/> O

HEREFORDWORCS

WM146 Ref. 179

<input checked="" type="checkbox"/> P	<input type="checkbox"/> B
<input type="checkbox"/> I	<input type="checkbox"/> O

HEREFORDWORCS

WM146 Ref. 219

<input type="checkbox"/> P	<input checked="" type="checkbox"/> B
<input type="checkbox"/> I	<input type="checkbox"/> O

HEREFORDWORCS

WM146 Ref. 672

<input type="checkbox"/> P	<input type="checkbox"/> B
<input checked="" type="checkbox"/> I	<input type="checkbox"/> O

HEREFORDWORCS

WM146 Ref. 673

<input type="checkbox"/> P	<input type="checkbox"/> B
<input checked="" type="checkbox"/> I	<input type="checkbox"/> O

HEREFORDWORCS

WM146 Ref. 674

<input type="checkbox"/> P	<input type="checkbox"/> B
<input checked="" type="checkbox"/> I	<input type="checkbox"/> O

HEREFORDWORCS

WM146 Ref. 35

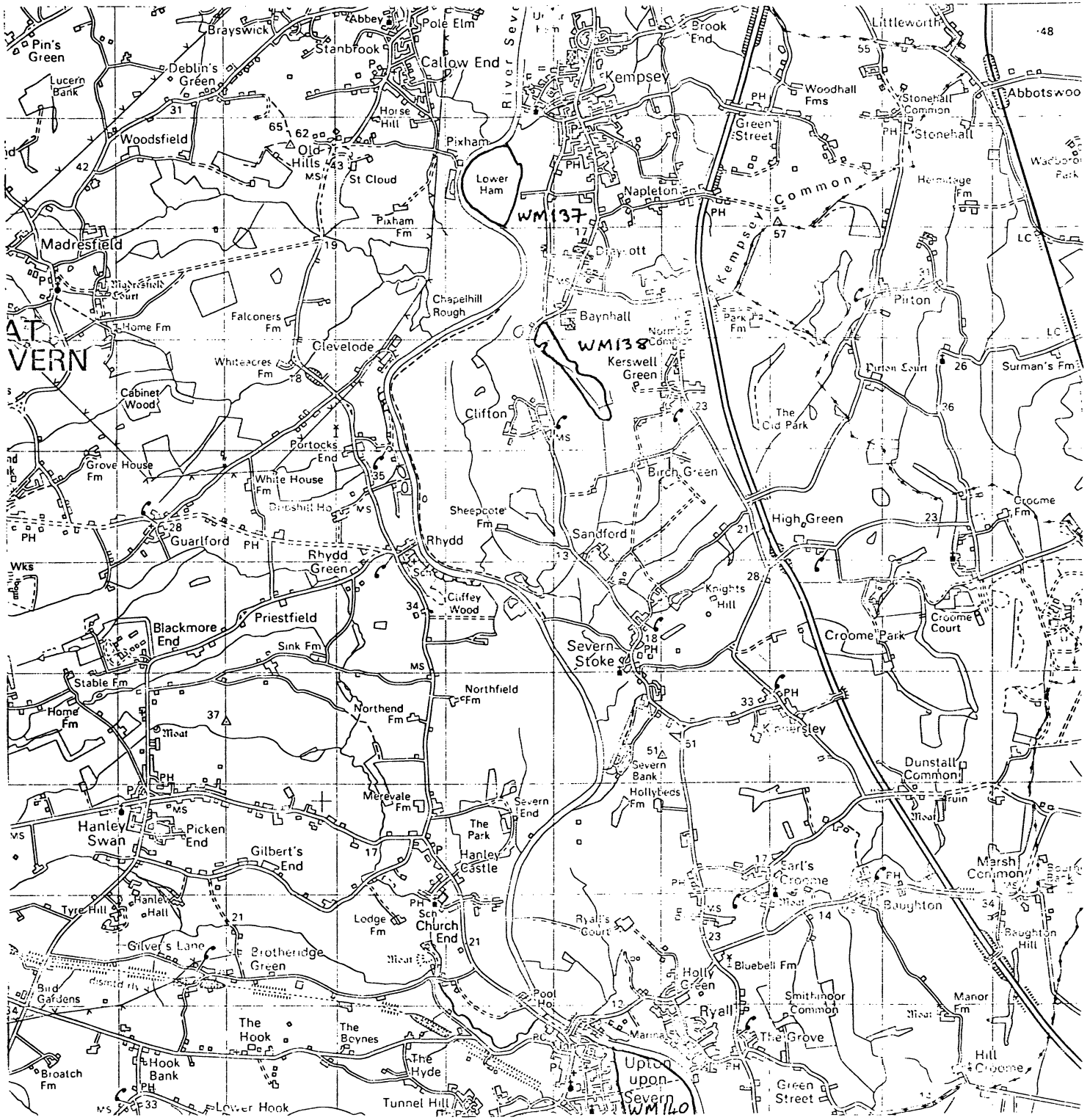
<input checked="" type="checkbox"/> P	<input type="checkbox"/> B
<input type="checkbox"/> I	<input type="checkbox"/> O

HEREFORDWORCS

WM143 Ref. 670

<input type="checkbox"/> P	<input type="checkbox"/> B
<input checked="" type="checkbox"/> I	<input type="checkbox"/> O

HEREFORDWORCS



SO84 Sheet 150

WM137 Ref. 30

<input checked="" type="checkbox"/>	P	<input type="checkbox"/>	B
<input type="checkbox"/>	I	<input type="checkbox"/>	O

HEREFORD/WORCS

WM137 Ref. 35

<input checked="" type="checkbox"/>	P	<input type="checkbox"/>	B
<input type="checkbox"/>	I	<input type="checkbox"/>	O

HEREFORD/WORCS

WM138 Ref. 30

<input checked="" type="checkbox"/>	P	<input type="checkbox"/>	B
<input type="checkbox"/>	I	<input type="checkbox"/>	O

HEREFORD/WORCS

WM138 Ref. 179

<input checked="" type="checkbox"/>	P	<input type="checkbox"/>	B
<input type="checkbox"/>	I	<input type="checkbox"/>	O

HEREFORD/WORCS



SO87 Sheets 138,139

WM107 Ref. 30

<input checked="" type="checkbox"/>	P	<input type="checkbox"/>	B
<input type="checkbox"/>	I	<input type="checkbox"/>	O

HEREFORD/WORCS

WM107 Ref. 179

<input checked="" type="checkbox"/>	P	<input type="checkbox"/>	B
<input type="checkbox"/>	I	<input type="checkbox"/>	O

HEREFORD/WORCS

WM107 Ref. 219

<input type="checkbox"/>	P	<input checked="" type="checkbox"/>	B
<input type="checkbox"/>	I	<input type="checkbox"/>	O

HEREFORD/WORCS

WM108 Ref. 179

<input checked="" type="checkbox"/>	P	<input type="checkbox"/>	B
<input type="checkbox"/>	I	<input type="checkbox"/>	O

HEREFORD/WORCS

WM108 Ref. 667

<input type="checkbox"/>	P	<input type="checkbox"/>	B
<input checked="" type="checkbox"/>	I	<input type="checkbox"/>	O

HEREFORD/WORCS

WM109 Ref. 30

<input checked="" type="checkbox"/>	P	<input type="checkbox"/>	B
<input type="checkbox"/>	I	<input type="checkbox"/>	O

HEREFORD/WORCS

WM109 Ref. 179

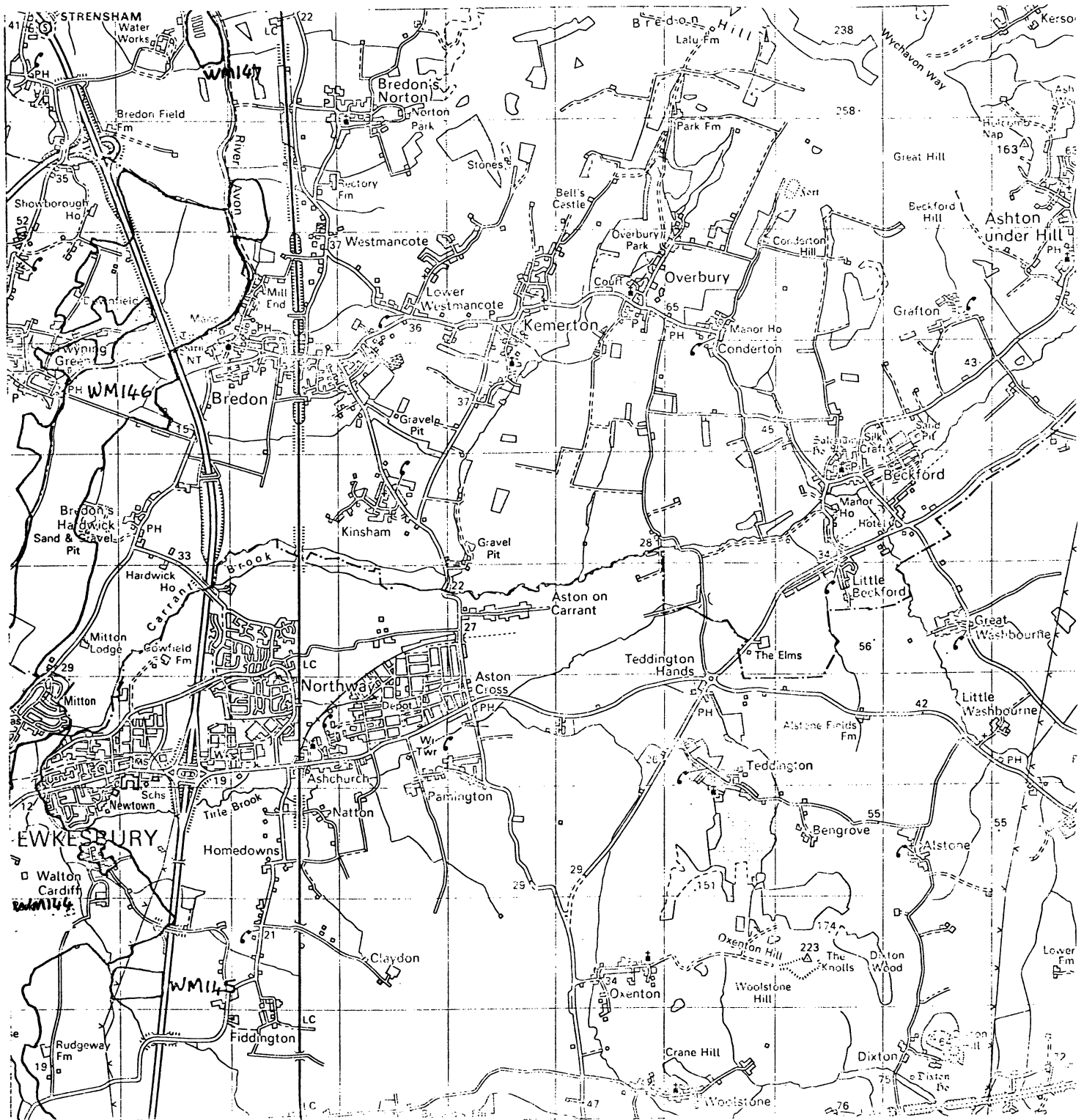
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<input type="checkbox"/>	I	<input type="checkbox"/>	O

HEREFORD/WORCS

WM109 Ref. 667

<input type="checkbox"/>	P	<input type="checkbox"/>	B
<input checked="" type="checkbox"/>	I	<input type="checkbox"/>	O

HEREFORD/WORCS



SO93 Sheet 150

WM144 Ref. 35

<input checked="" type="checkbox"/>	P	<input type="checkbox"/>	B
<input type="checkbox"/>	I	<input type="checkbox"/>	O

GLUCESTERSHIRE

WM144 Ref. 722

<input type="checkbox"/>	P	<input checked="" type="checkbox"/>	B
<input type="checkbox"/>	I	<input type="checkbox"/>	O

GLUCESTERSHIRE

WM146 Ref. 704

<input type="checkbox"/>	P	<input checked="" type="checkbox"/>	B
<input type="checkbox"/>	I	<input type="checkbox"/>	O

HEREFORD/WORCS

WM144 Ref. 666

<input type="checkbox"/>	P	<input type="checkbox"/>	B
<input checked="" type="checkbox"/>	I	<input type="checkbox"/>	O

GLUCESTERSHIRE

WM144 Ref. 668

<input type="checkbox"/>	P	<input type="checkbox"/>	B
<input checked="" type="checkbox"/>	I	<input type="checkbox"/>	O

GLUCESTERSHIRE

WM144 Ref. 669

<input type="checkbox"/>	P	<input type="checkbox"/>	B
<input checked="" type="checkbox"/>	I	<input type="checkbox"/>	O

GLUCESTERSHIRE

WM144 Ref. 671

<input type="checkbox"/>	P	<input type="checkbox"/>	B
<input checked="" type="checkbox"/>	I	<input type="checkbox"/>	O

GLUCESTERSHIRE

WM146 Ref. 30

<input checked="" type="checkbox"/>	P	<input type="checkbox"/>	B
<input type="checkbox"/>	I	<input type="checkbox"/>	O

HEREFORD/WORCS

WM146 Ref. 35

<input checked="" type="checkbox"/>	P	<input type="checkbox"/>	B
<input type="checkbox"/>	I	<input type="checkbox"/>	O

HEREFORD/WORCS

WM146 Ref. 179

<input checked="" type="checkbox"/>	P	<input type="checkbox"/>	B
<input type="checkbox"/>	I	<input type="checkbox"/>	O

HEREFORD/WORCS

WM146 Ref. 219

<input type="checkbox"/>	P	<input checked="" type="checkbox"/>	B
<input type="checkbox"/>	I	<input type="checkbox"/>	O

HEREFORD/WORCS

WM146 Ref. 672

<input type="checkbox"/>	P	<input type="checkbox"/>	B
<input checked="" type="checkbox"/>	I	<input type="checkbox"/>	O

HEREFORD/WORCS

WM146 Ref. 673

<input type="checkbox"/>	P	<input type="checkbox"/>	B
<input checked="" type="checkbox"/>	I	<input type="checkbox"/>	O

HEREFORD/WORCS

WM146 Ref. 674

<input type="checkbox"/>	P	<input type="checkbox"/>	B
<input checked="" type="checkbox"/>	I	<input type="checkbox"/>	O

HEREFORD/WORCS

WM147 Ref. 30

<input checked="" type="checkbox"/>	P	<input type="checkbox"/>	B
<input type="checkbox"/>	I	<input type="checkbox"/>	O

HEREFORD/WORCS



SO94 Sheet 150

WM139 Ref. 219

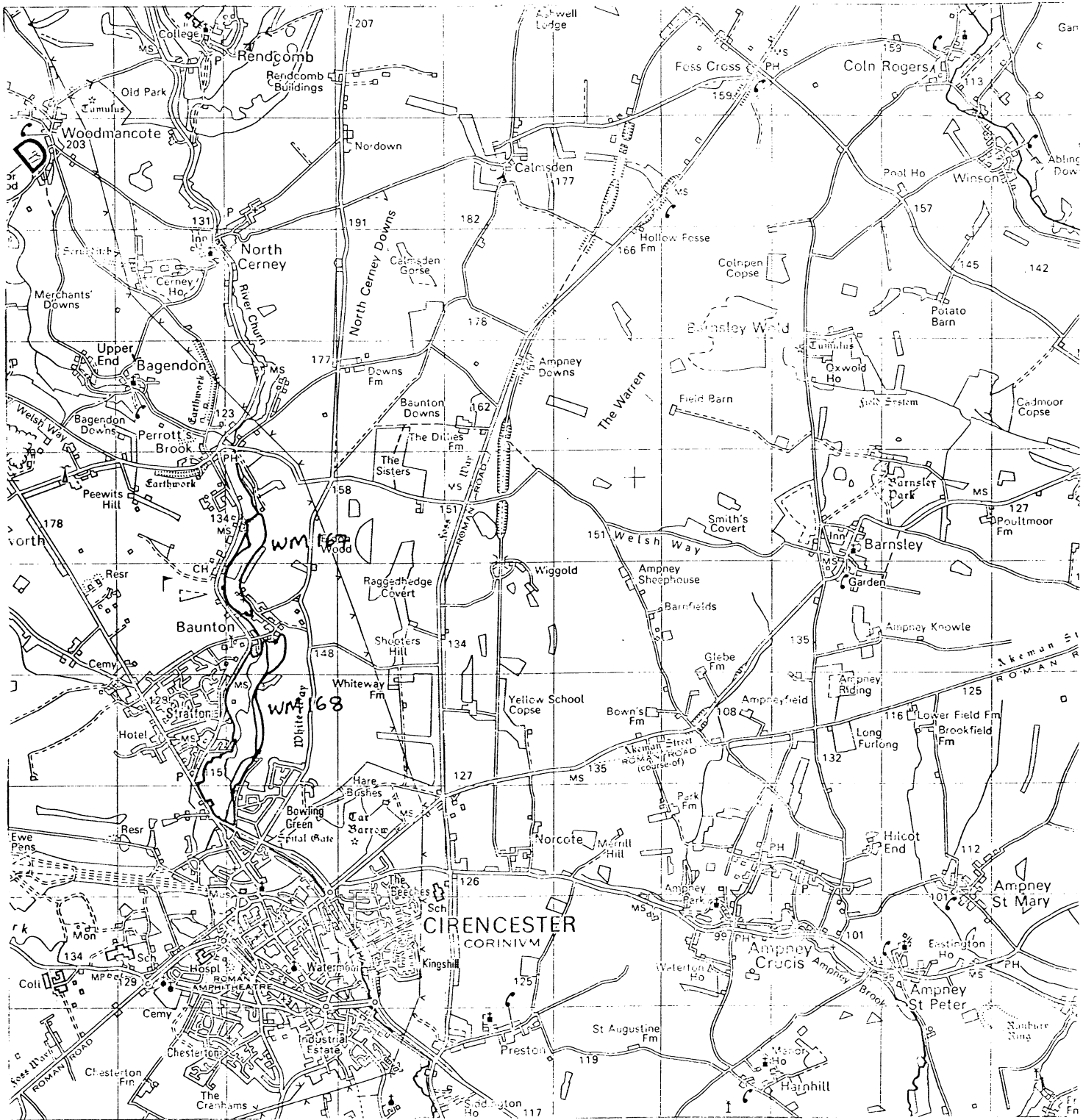
□	⊗	B
□	I	O

HEREFORD/WORCS

WM147 Ref. 30

⊗	□	B
□	I	O

HEREFORD/WORCS



SP00 Sheet 163

WM167 Ref. 675

<input type="checkbox"/>	P	<input type="checkbox"/>	B
<input checked="" type="checkbox"/>	I	<input type="checkbox"/>	O

GLOUCESTERSHIRE

WM167 Ref. 676

<input type="checkbox"/>	P	<input type="checkbox"/>	B
<input checked="" type="checkbox"/>	I	<input type="checkbox"/>	O

GLOUCESTERSHIRE

WM168 Ref. 675

<input type="checkbox"/>	P	<input type="checkbox"/>	B
<input checked="" type="checkbox"/>	I	<input type="checkbox"/>	O

GLOUCESTERSHIRE

WM167 Ref. 700

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<input type="checkbox"/>	I	<input type="checkbox"/>	O

GLOUCESTERSHIRE

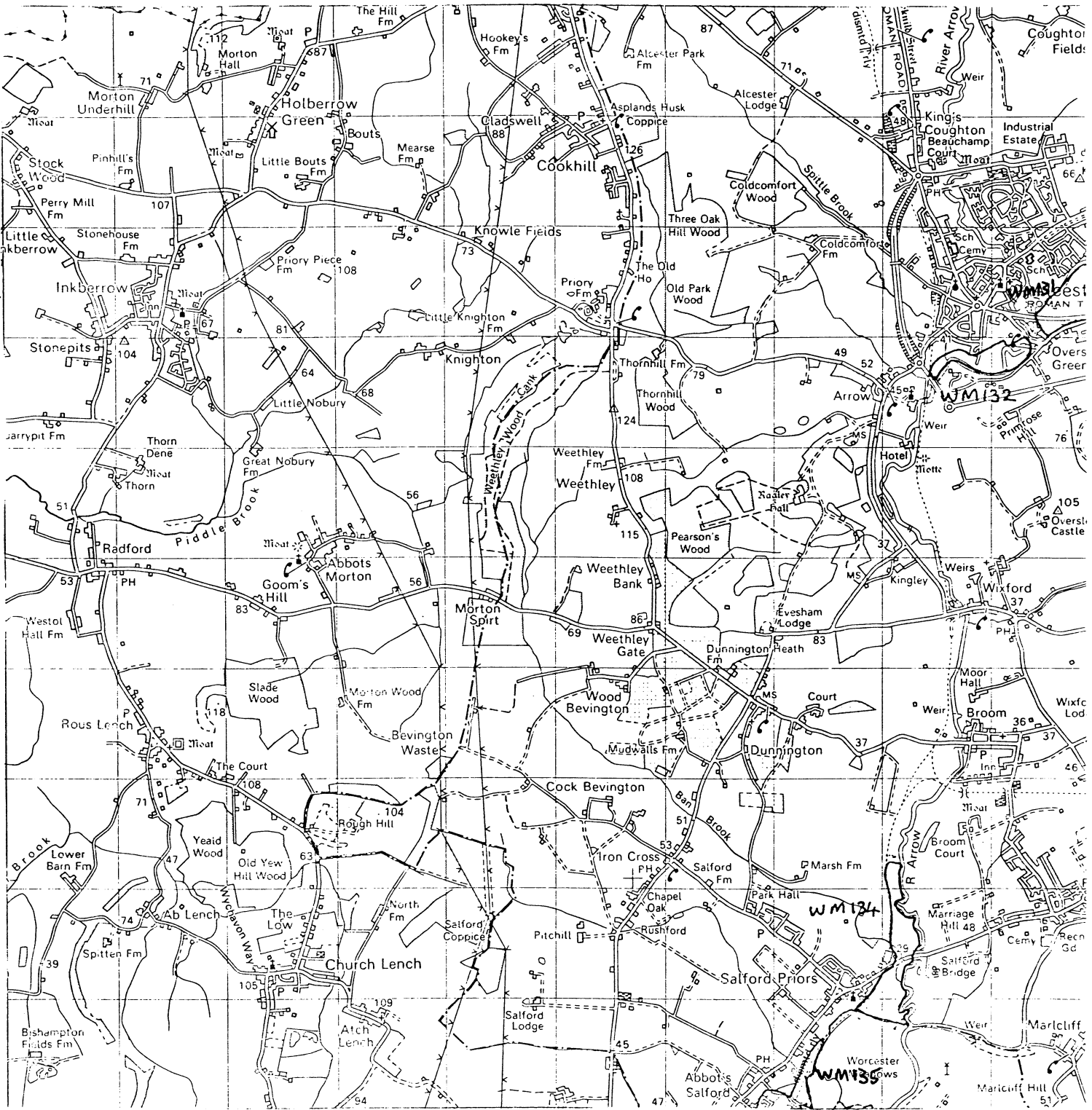


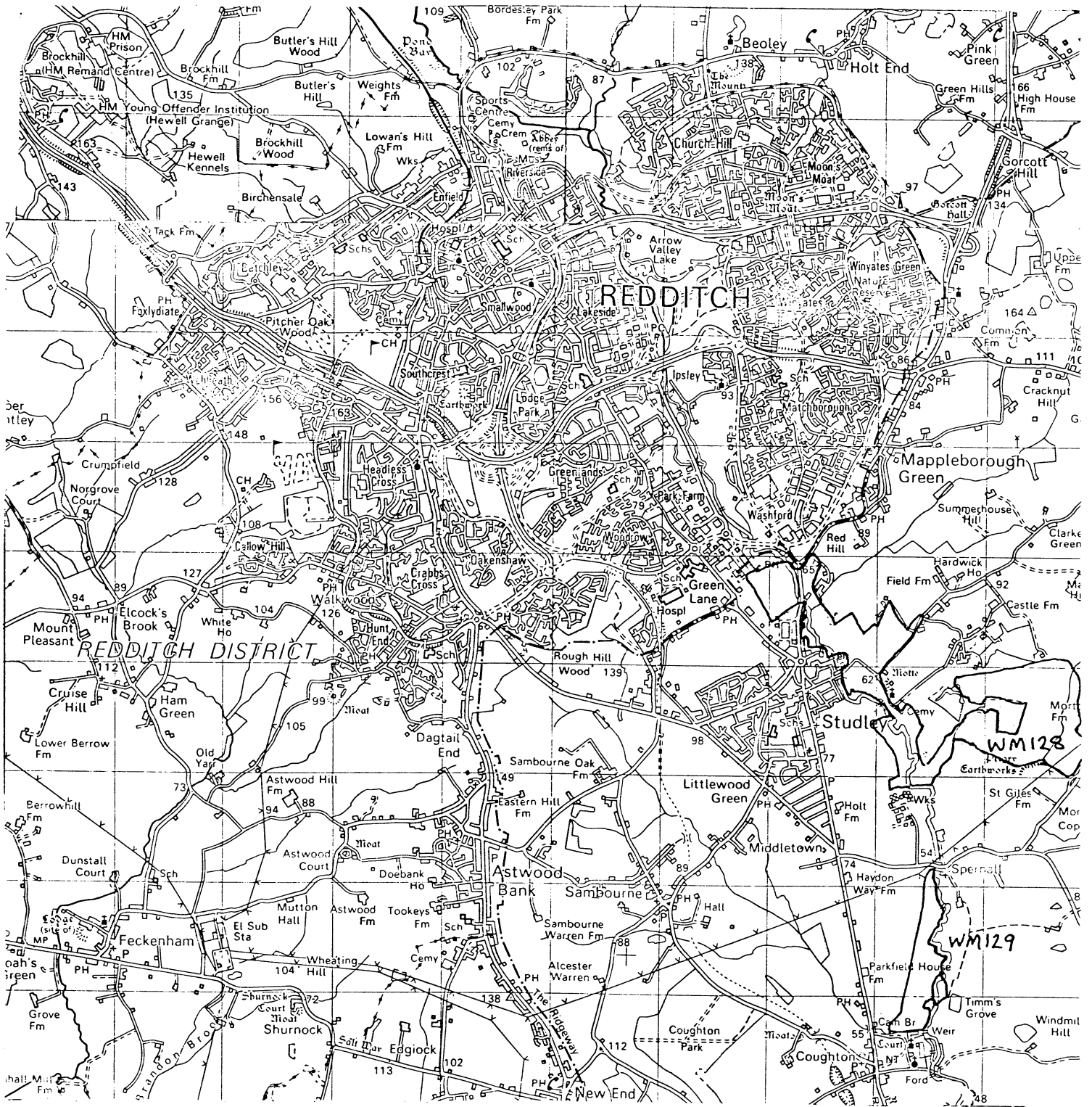
SP04 Sheet 150

WM136 Ref. 677

□	P	□	B
⊗	I	□	O

HEREFORDWORCS



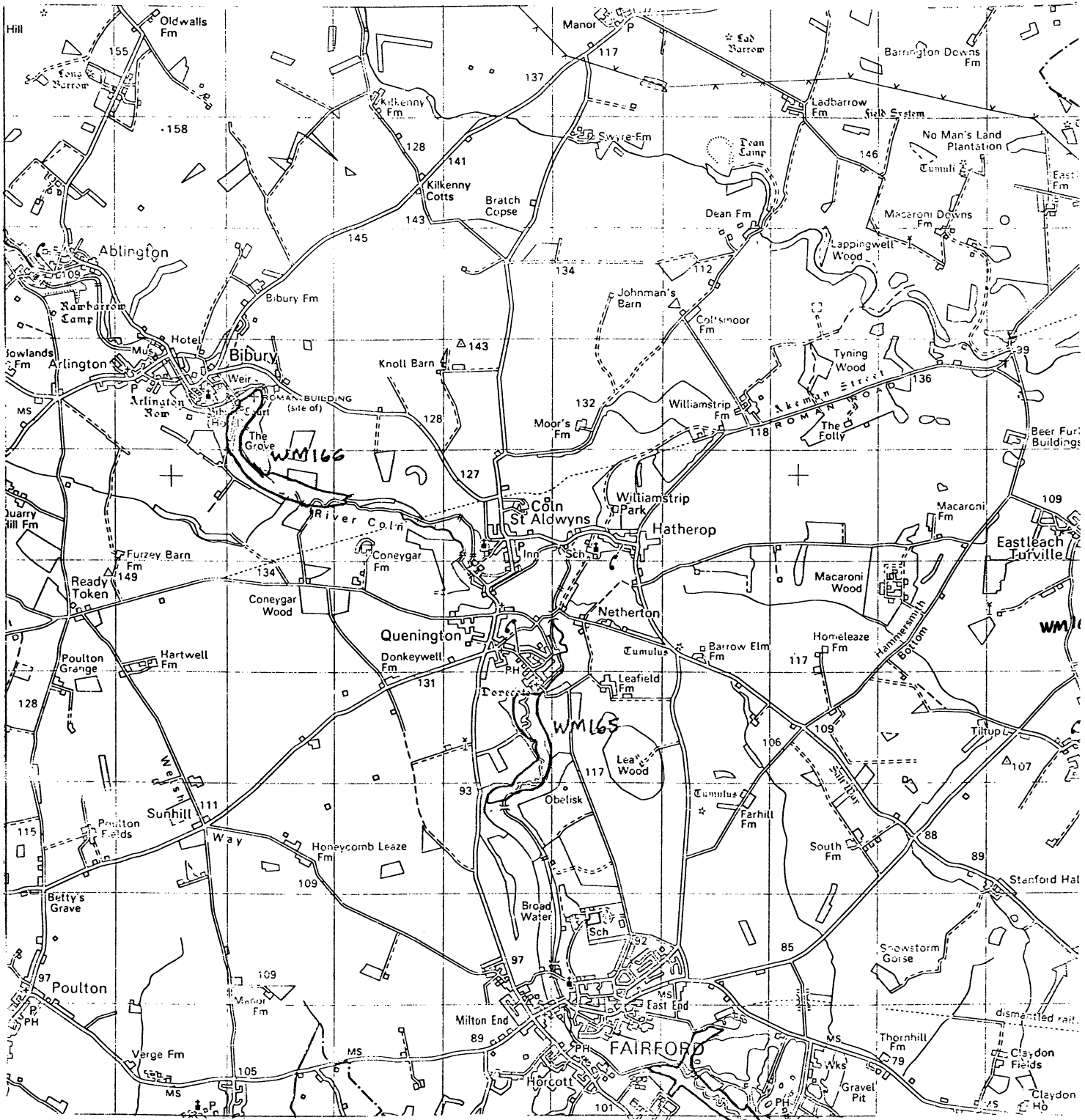


SP06 Sheets 139,150

WM129 Ref. 678

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<input checked="" type="checkbox"/>	I	<input type="checkbox"/>	O

WARWICKSHIRE

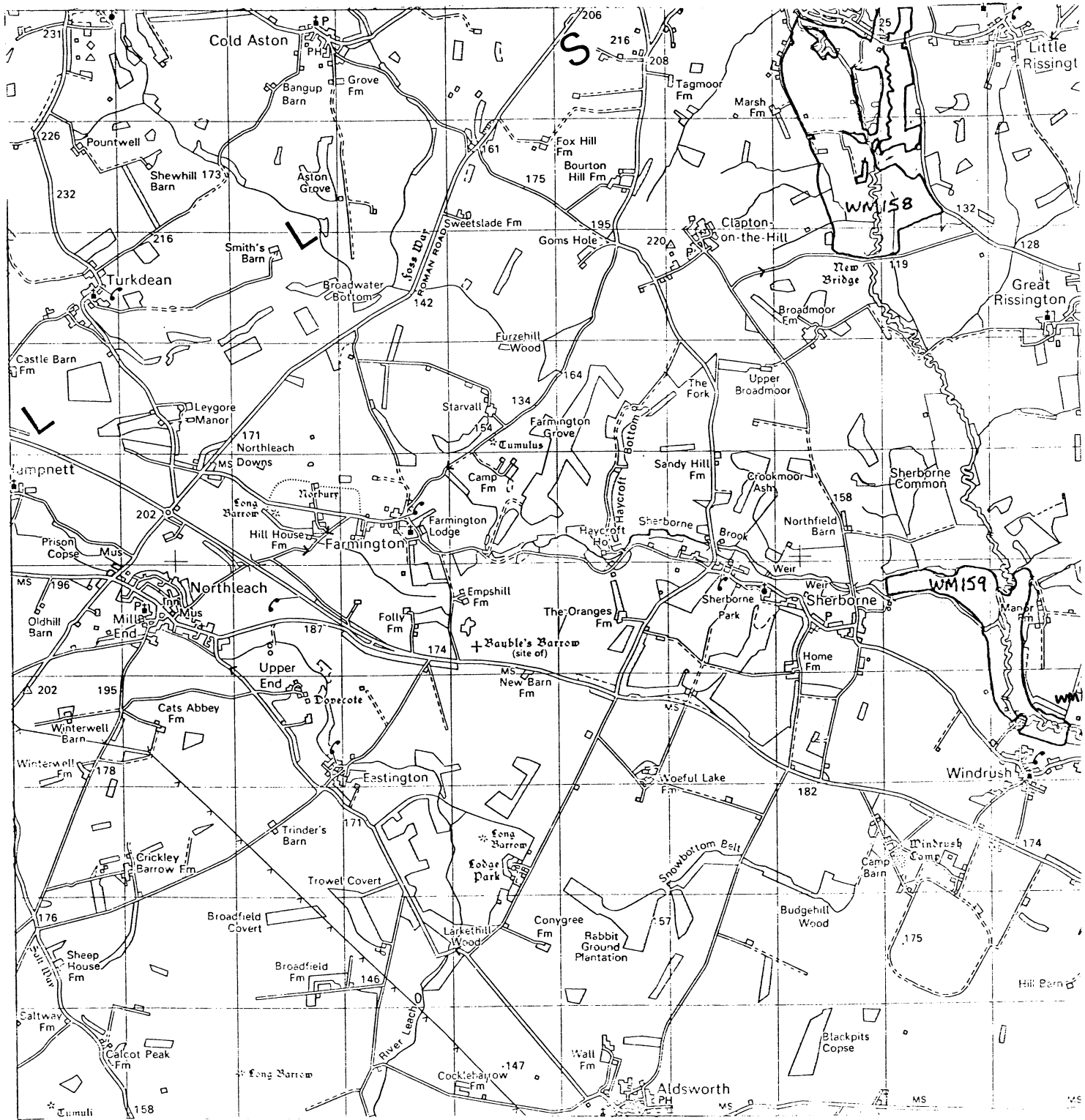


SP10

Sheet 163

WM161	Ref: 722
<input type="checkbox"/> P	<input checked="" type="checkbox"/> B
<input type="checkbox"/> I	<input type="checkbox"/> O
GLOUCESTERSHIRE	

WM165	Ref: 679
<input type="checkbox"/> P	<input type="checkbox"/> B
<input checked="" type="checkbox"/> I	<input type="checkbox"/> O
GLOUCESTERSHIRE	



SP11 Sheet 163

WM158 Ref. 680

<input type="checkbox"/>	P	<input type="checkbox"/>	B
<input checked="" type="checkbox"/>	I	<input type="checkbox"/>	O

GLOUCESTERSHIRE

WM158 Ref. 681

<input type="checkbox"/>	P	<input type="checkbox"/>	B
<input checked="" type="checkbox"/>	I	<input type="checkbox"/>	O

GLOUCESTERSHIRE

WM158 Ref. 722

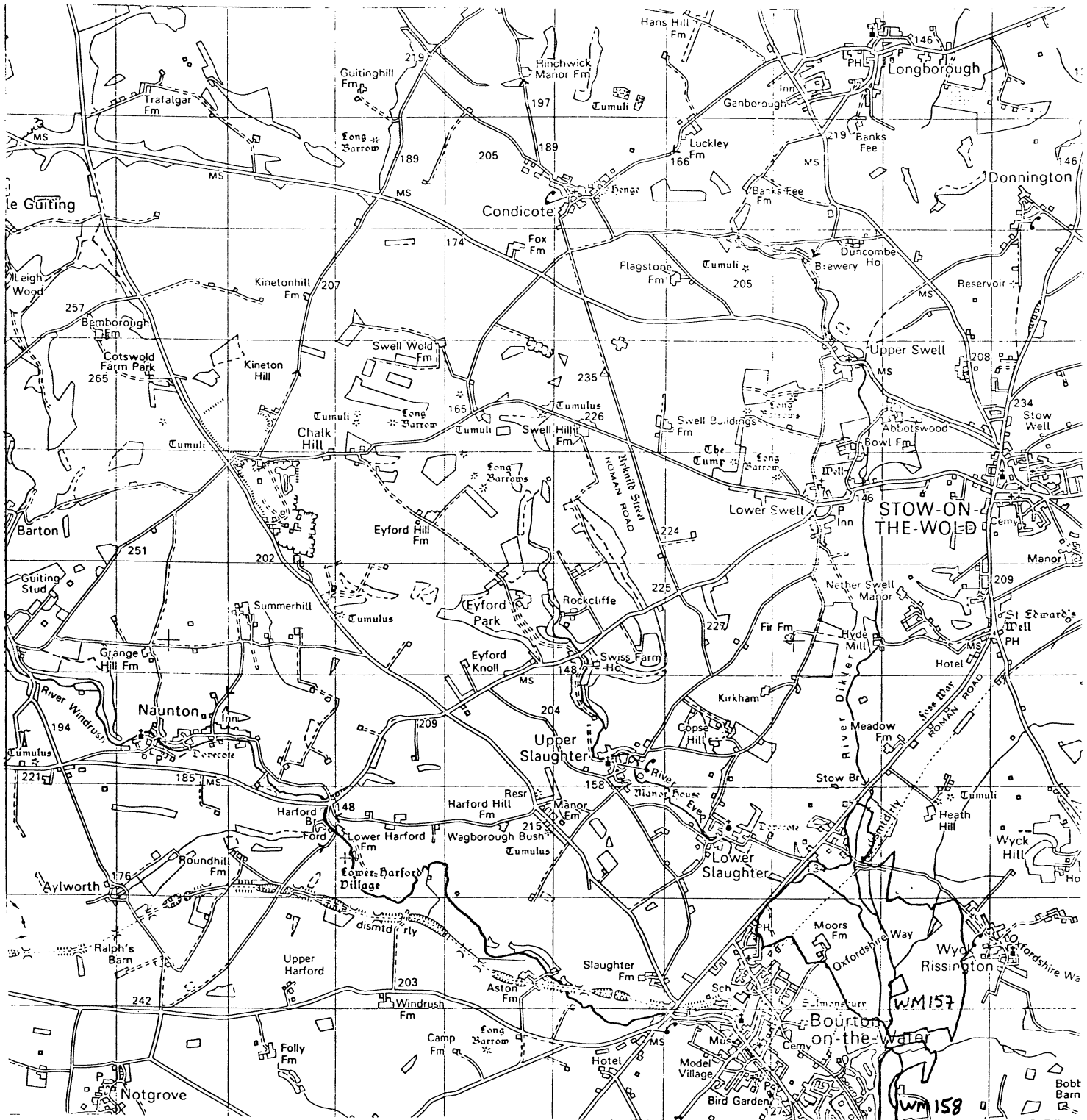
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<input type="checkbox"/>	I	<input type="checkbox"/>	O

GLOUCESTERSHIRE

WM159 Ref. 722

<input type="checkbox"/>	P	<input checked="" type="checkbox"/>	B
<input type="checkbox"/>	I	<input type="checkbox"/>	O

GLOUCESTERSHIRE



SP12 Sheet 163

WM157 Ref: 35

<input checked="" type="checkbox"/>	P	<input type="checkbox"/>	B
<input type="checkbox"/>	I	<input type="checkbox"/>	O

GLoucestershire

WM157 Ref: 680

<input type="checkbox"/>	P	<input type="checkbox"/>	B
<input checked="" type="checkbox"/>	I	<input type="checkbox"/>	O

GLoucestershire

WM158 Ref: 680

<input type="checkbox"/>	P	<input type="checkbox"/>	B
<input checked="" type="checkbox"/>	I	<input type="checkbox"/>	O

GLoucestershire

WM158 Ref: 681

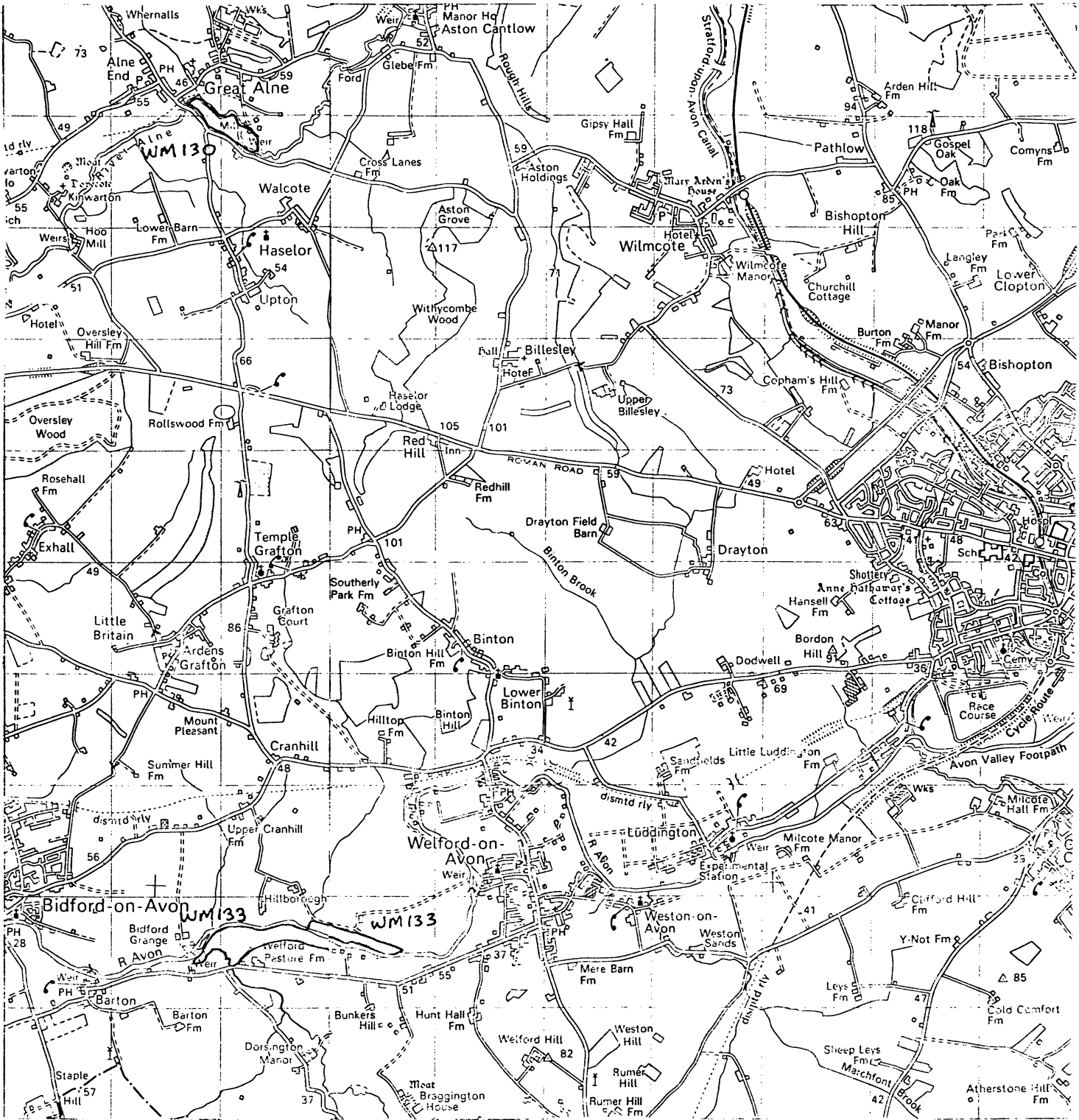
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<input checked="" type="checkbox"/>	I	<input type="checkbox"/>	O

GLoucestershire

WM158 Ref: 722

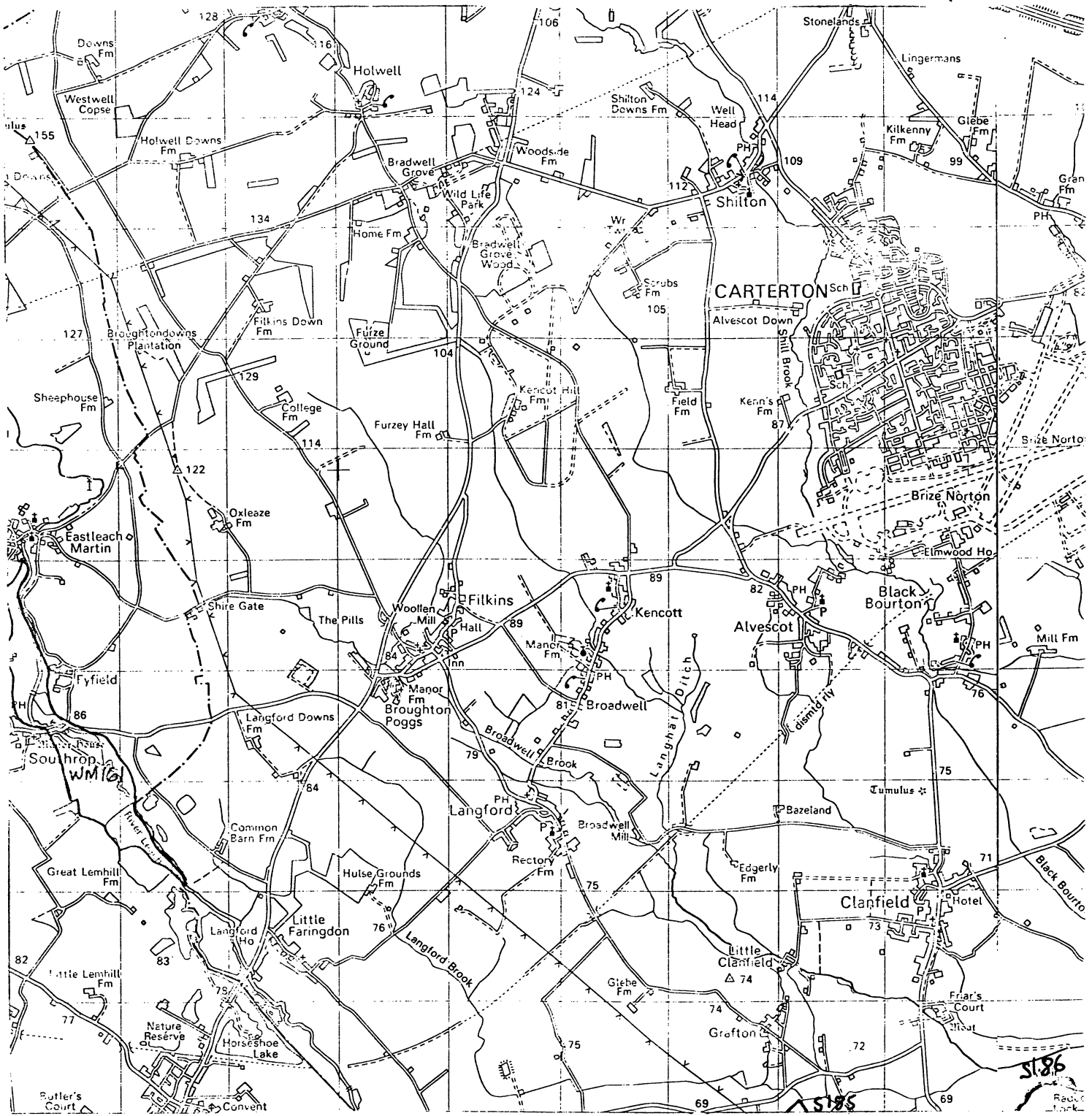
<input type="checkbox"/>	P	<input checked="" type="checkbox"/>	B
<input type="checkbox"/>	I	<input type="checkbox"/>	O

GLoucestershire



SP15 Sheets 150,151





SP20 Sheets 163,164

WM185 Ref: 559

<input type="checkbox"/> P	<input type="checkbox"/> B
<input checked="" type="checkbox"/> I	<input type="checkbox"/> O

GLoucestershire

WM185 Ref: 684

<input type="checkbox"/> P	<input type="checkbox"/> B
<input checked="" type="checkbox"/> I	<input type="checkbox"/> O

GLoucestershire

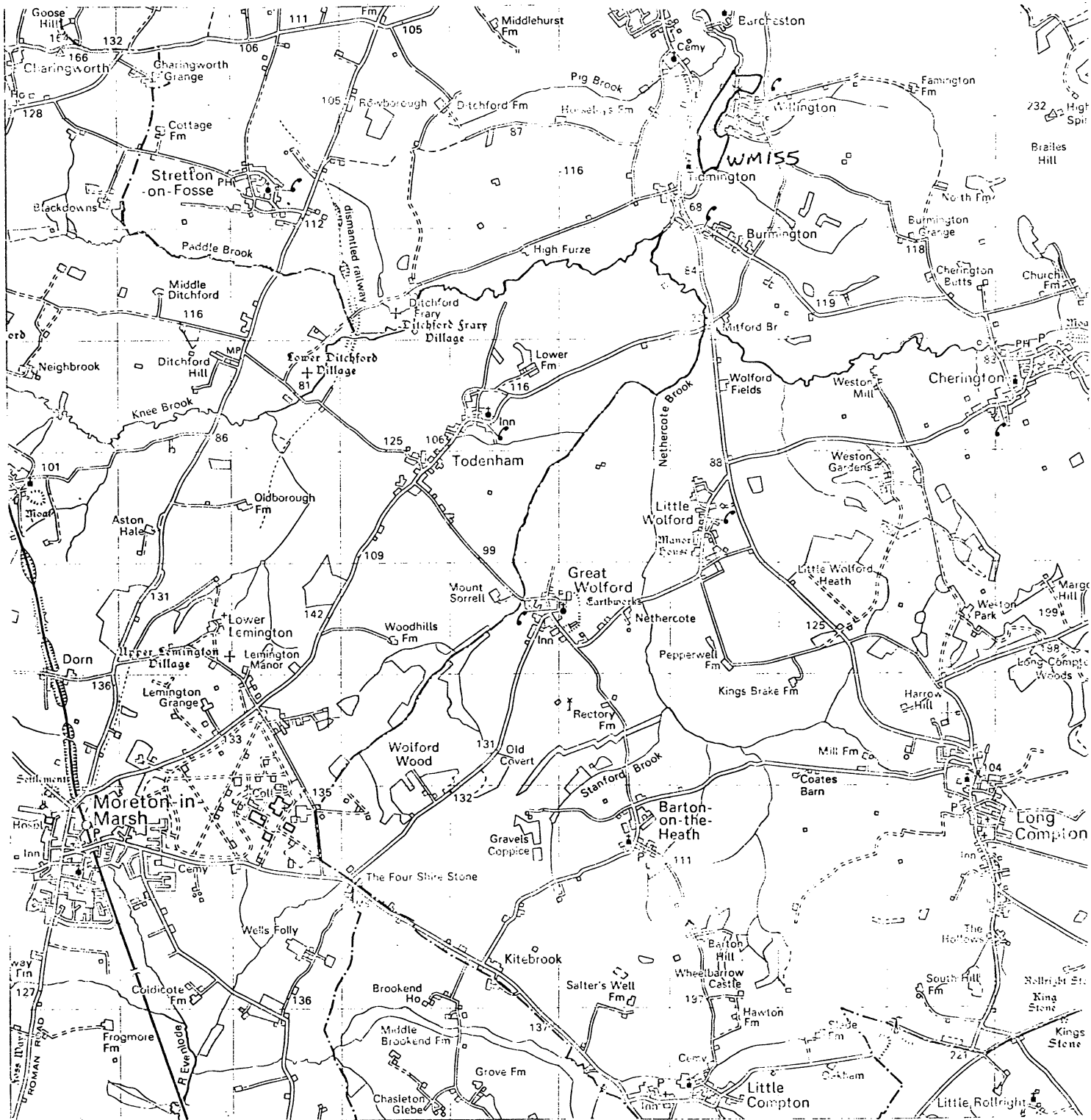
WM161 Ref: 722

<input type="checkbox"/> P	<input checked="" type="checkbox"/> B
<input type="checkbox"/> I	<input type="checkbox"/> O

GLoucestershire



SP21 **Sheets 163,164**

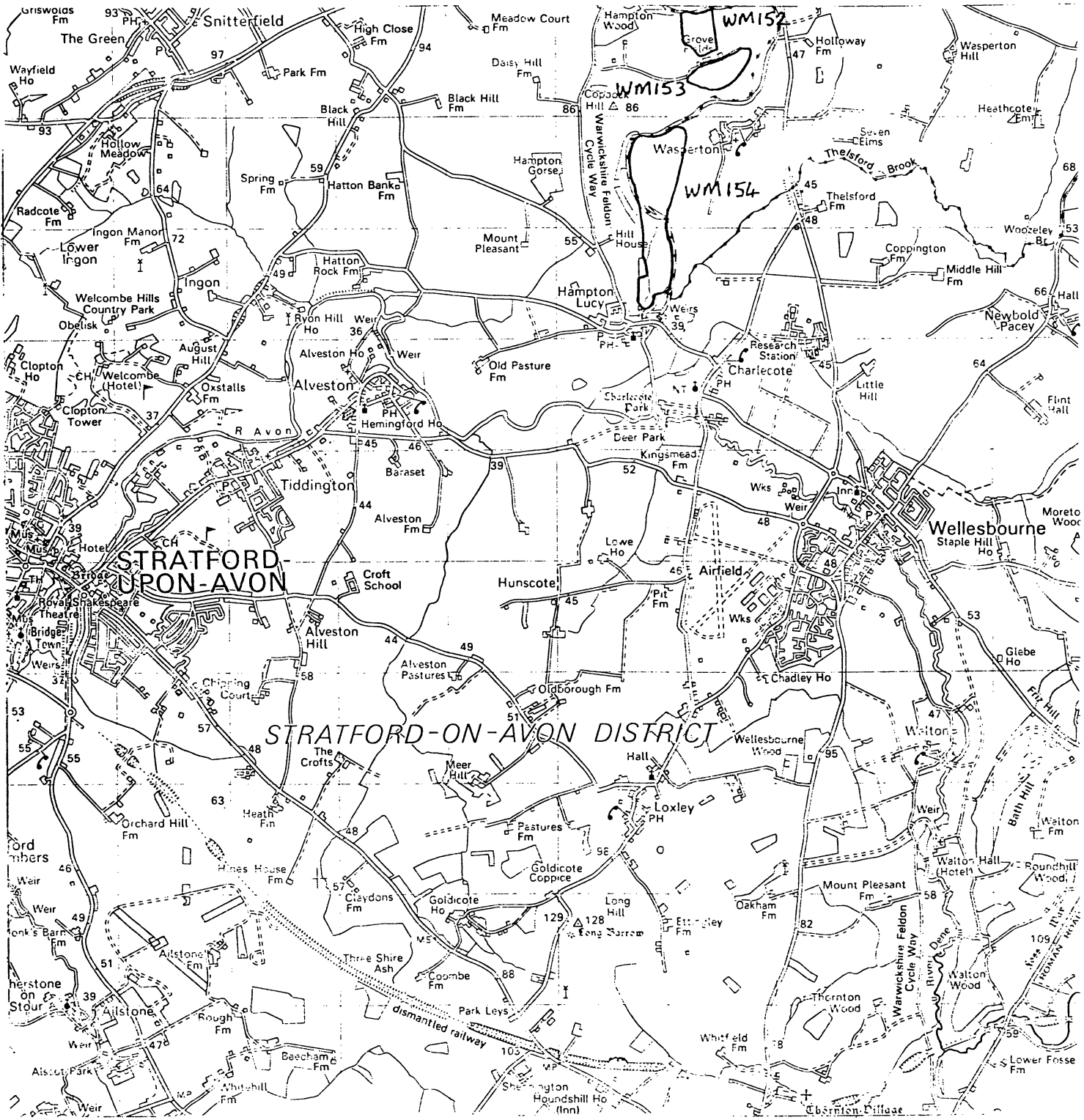


SP23 Sheet 151

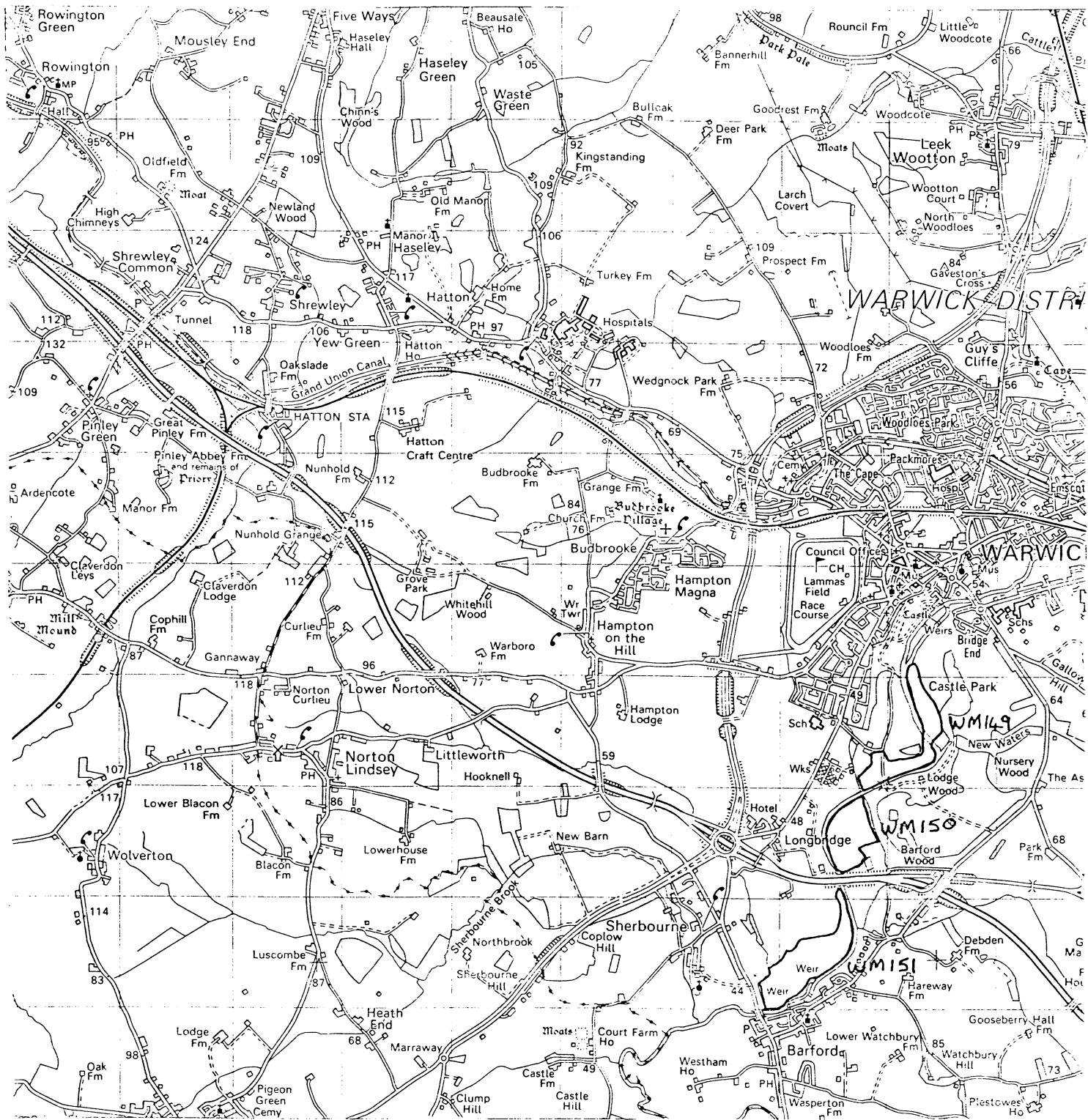
WM155 Ref. 217

□	P	⊗	B
□	I	□	O

WARWICKSHIRE



SP25 Sheet 151



SP26 Sheet 151



SP28 Sheets 139,140

WM100 Ref: 217

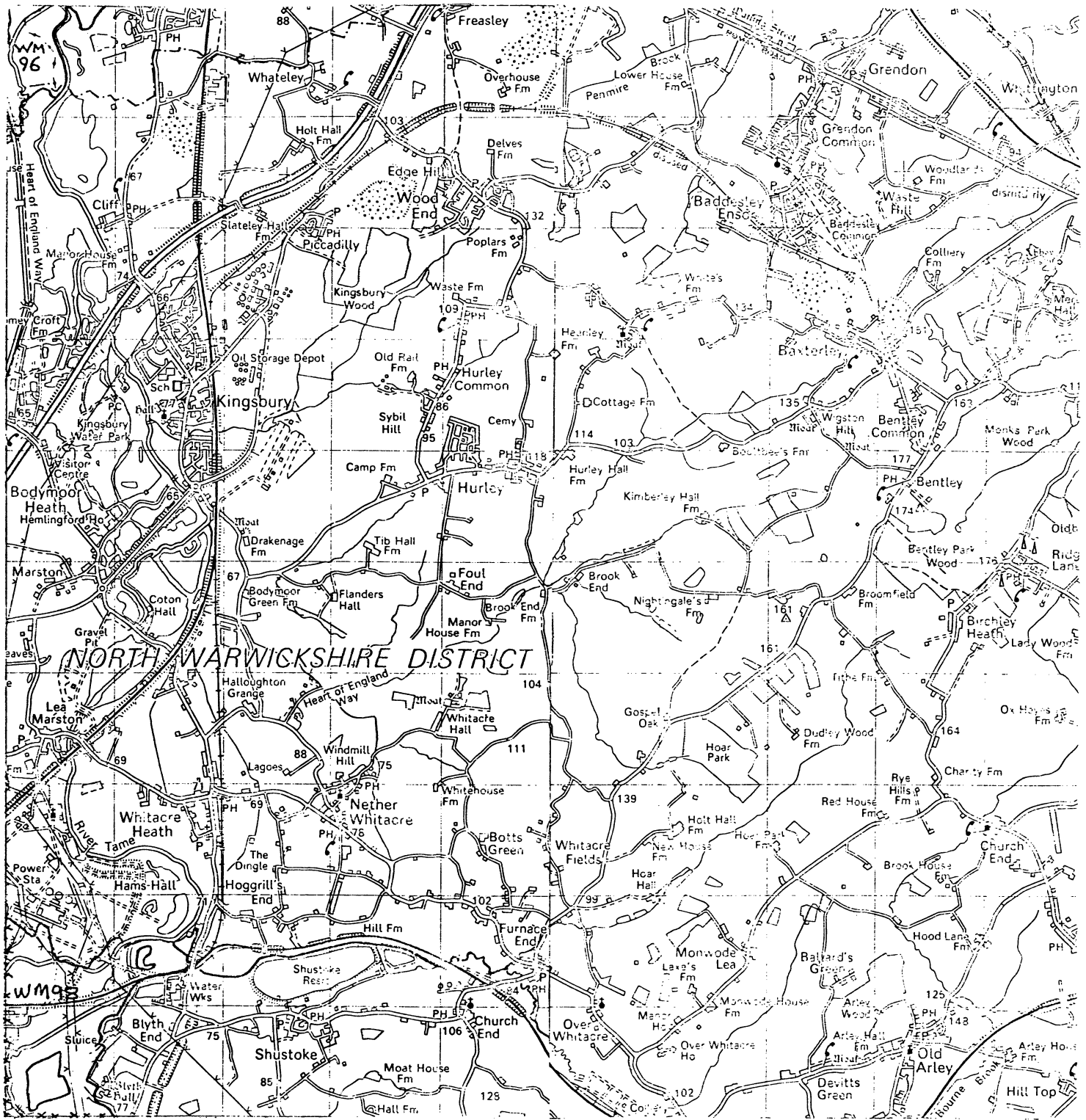
<input type="checkbox"/>	<input checked="" type="checkbox"/>
P	B
<input type="checkbox"/>	<input type="checkbox"/>
I	O

WARWICKSHIRE

WM101 Ref: 217

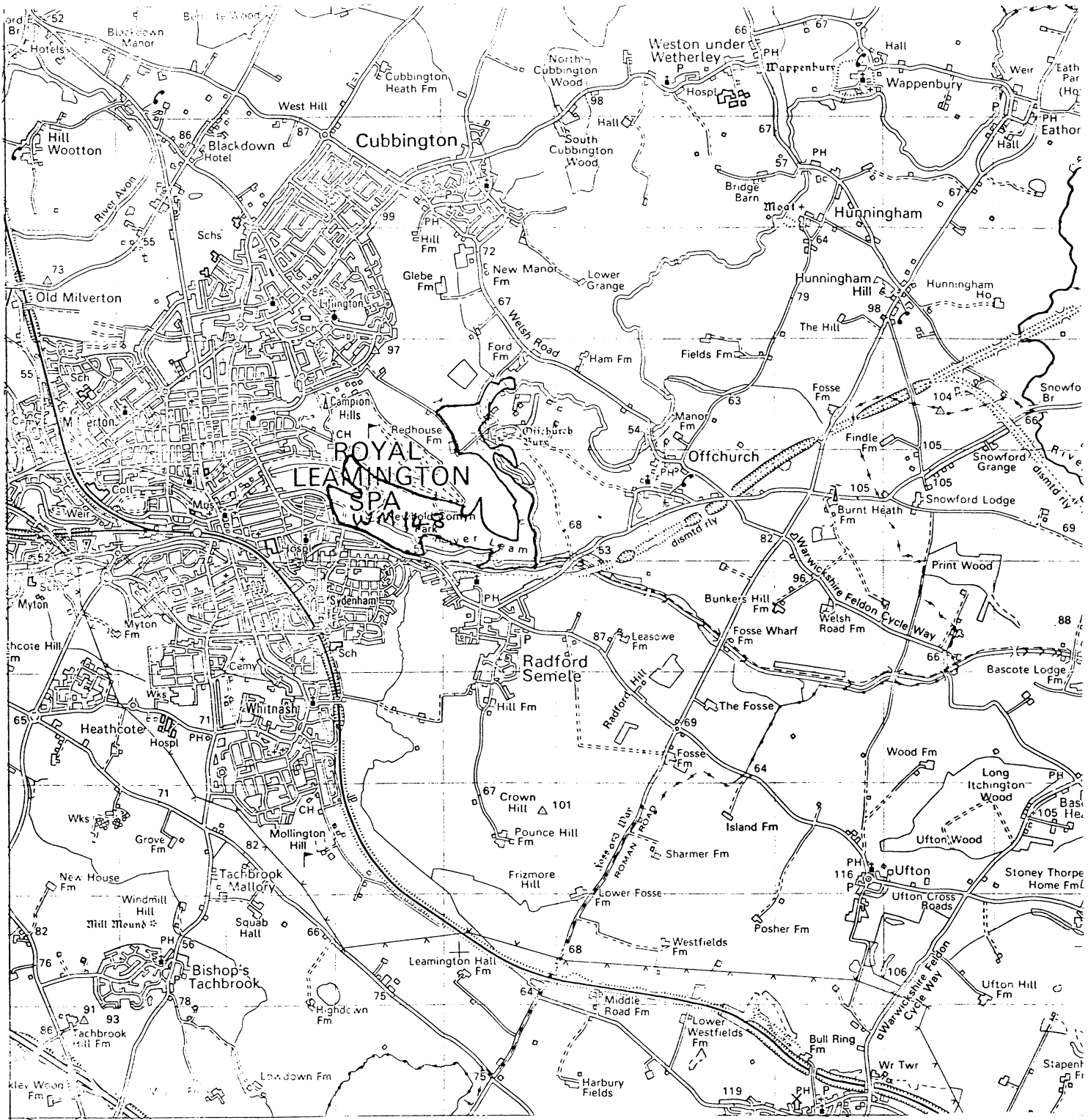
<input type="checkbox"/>	<input checked="" type="checkbox"/>
P	B
<input type="checkbox"/>	<input type="checkbox"/>
I	O

WARWICKSHIRE



SP29 Sheets 139,140

WM98 Ref. 217				
<table border="0"> <tr> <td>□ P</td> <td>⊗ B</td> </tr> <tr> <td>□ I</td> <td>□ O</td> </tr> </table>	□ P	⊗ B	□ I	□ O
□ P	⊗ B			
□ I	□ O			
WARWICKSHIRE				

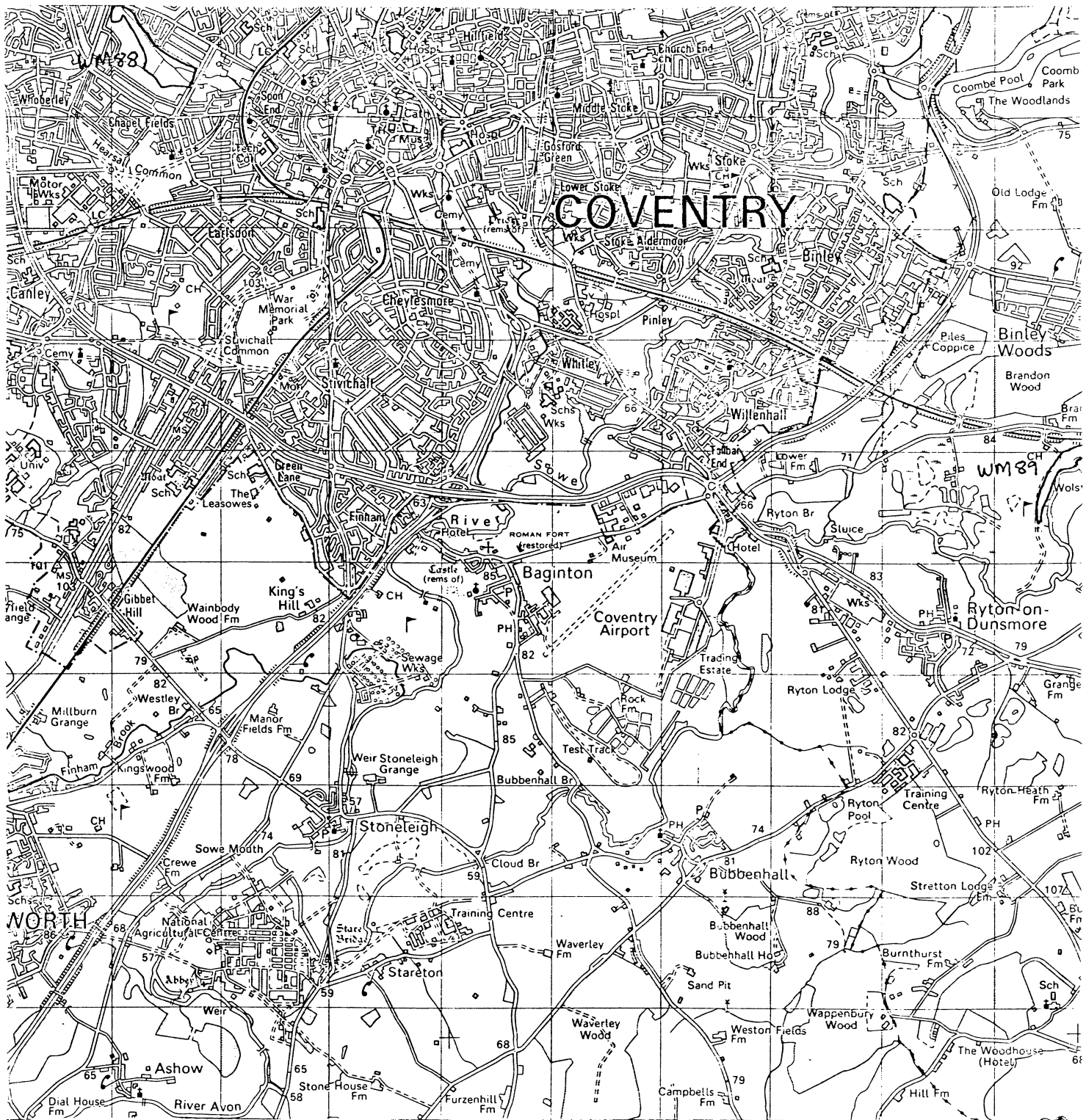


SP36 Sheet 151

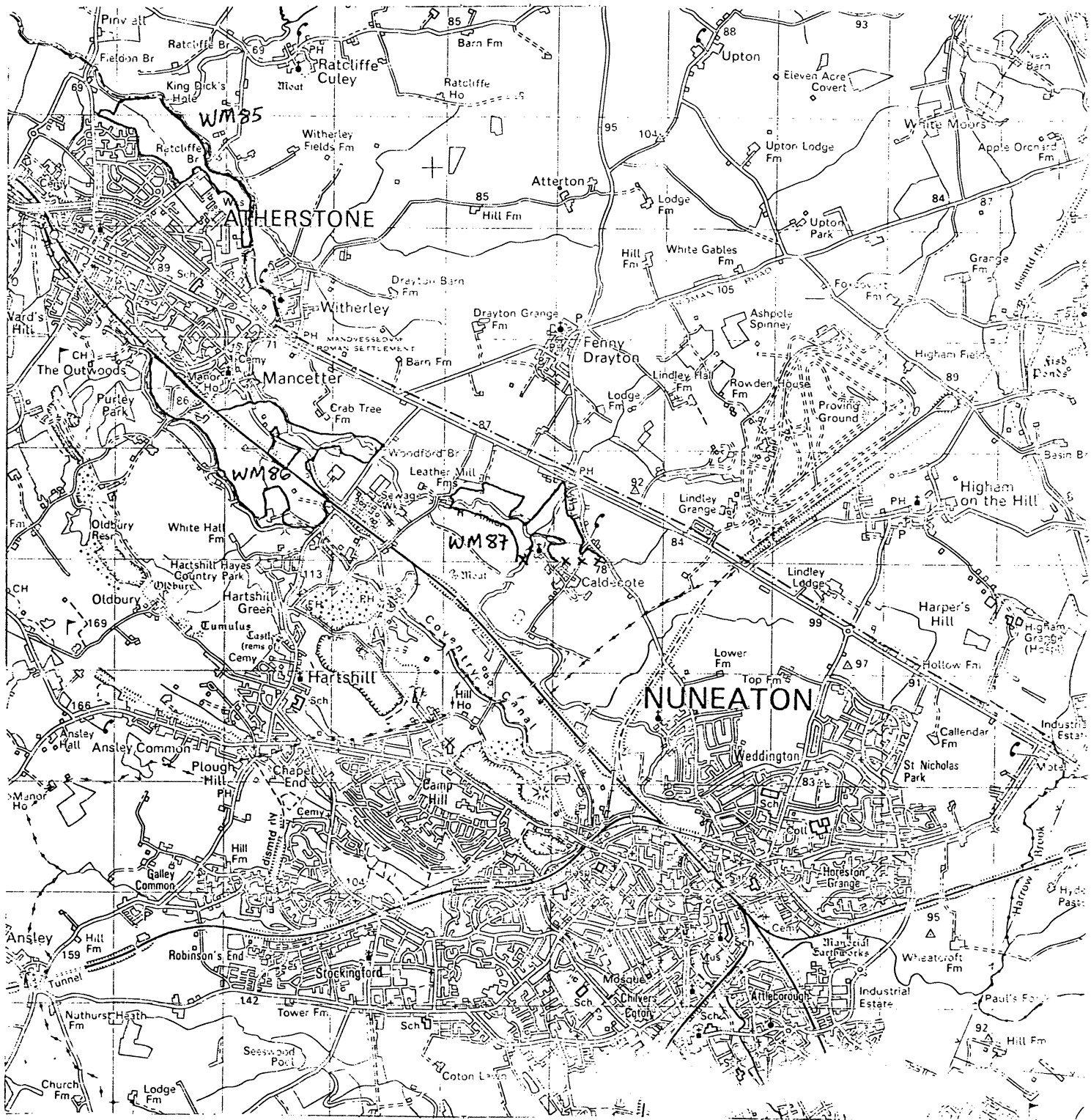
WM148 Ref. 703

□ P	⊗ B
□ I	○

WARWICKSHIRE



SP37 Sheet 140



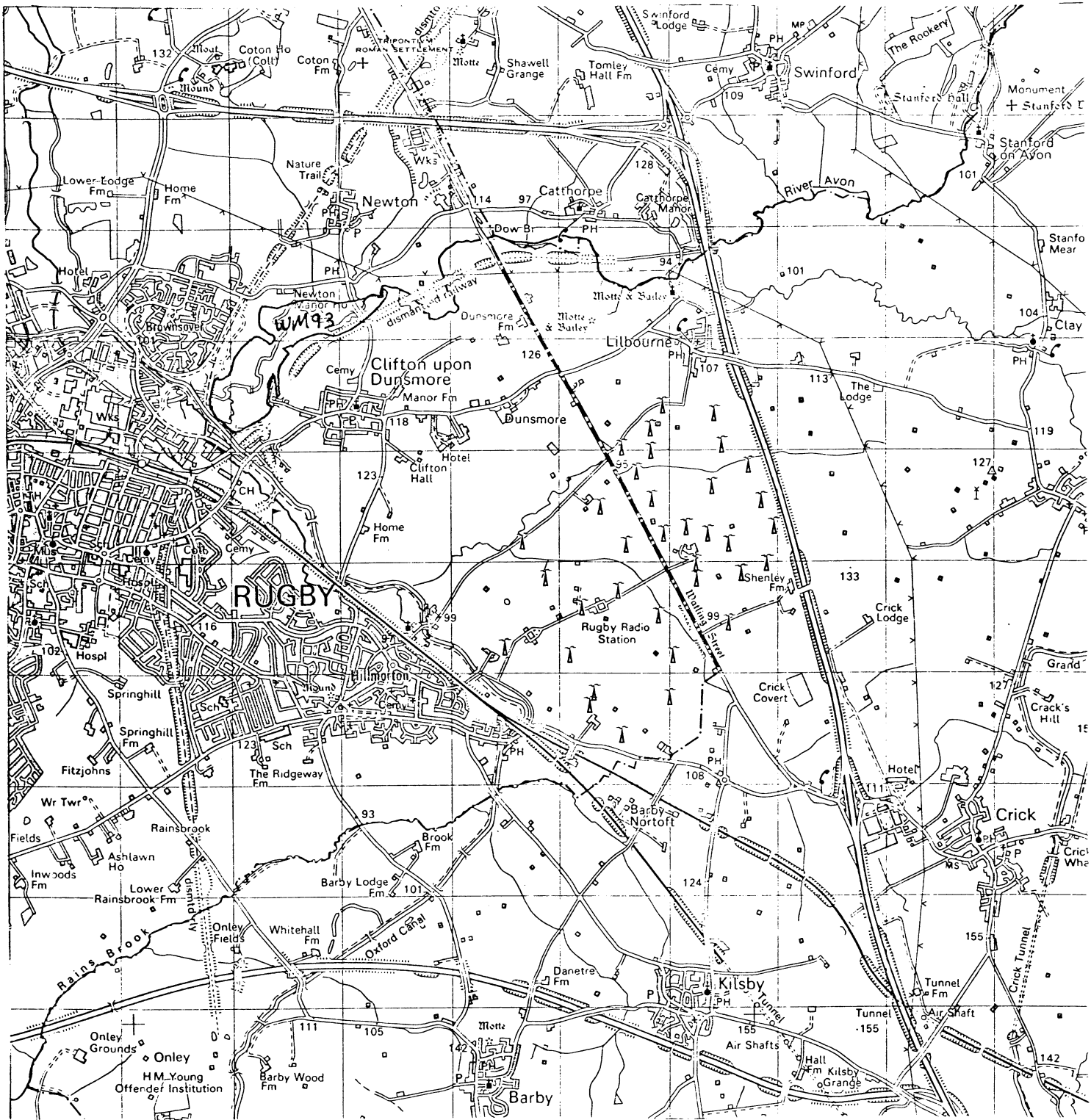


SP47 Sheet 140

WM90 Ref: 703

□ P	⊗ B
□ I	○ O

WARWICKSHIRE



SP57 Sheet 140



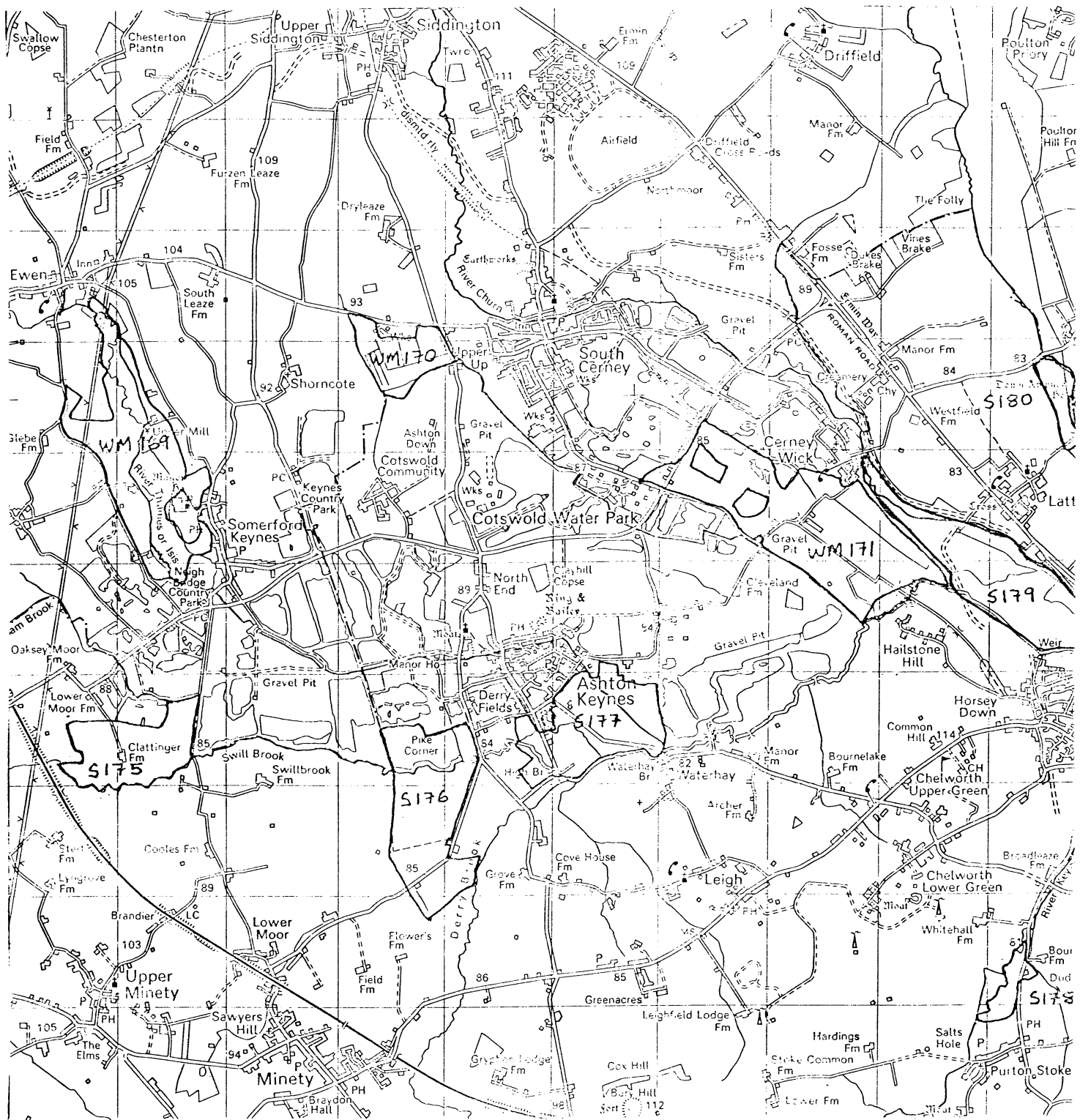
ST59 Sheet 162



ST69 Sheet 162

WM185	Ref. 559
<input type="checkbox"/>	P <input type="checkbox"/> B
<input checked="" type="checkbox"/>	I <input type="checkbox"/> O
GLOUCESTERSHIRE	

WM185	Ref. 684
<input type="checkbox"/>	P <input type="checkbox"/> B
<input checked="" type="checkbox"/>	I <input type="checkbox"/> O
GLOUCESTERSHIRE	



SU09 Sheet 163

WM175 Ref: 665

<input type="checkbox"/>	P	<input type="checkbox"/>	B
<input checked="" type="checkbox"/>	I	<input type="checkbox"/>	O

GLoucestershire

WM171 Ref: 35

<input checked="" type="checkbox"/>	P	<input type="checkbox"/>	B
<input type="checkbox"/>	I	<input type="checkbox"/>	O

GLoucestershire

WM169 Ref: 722

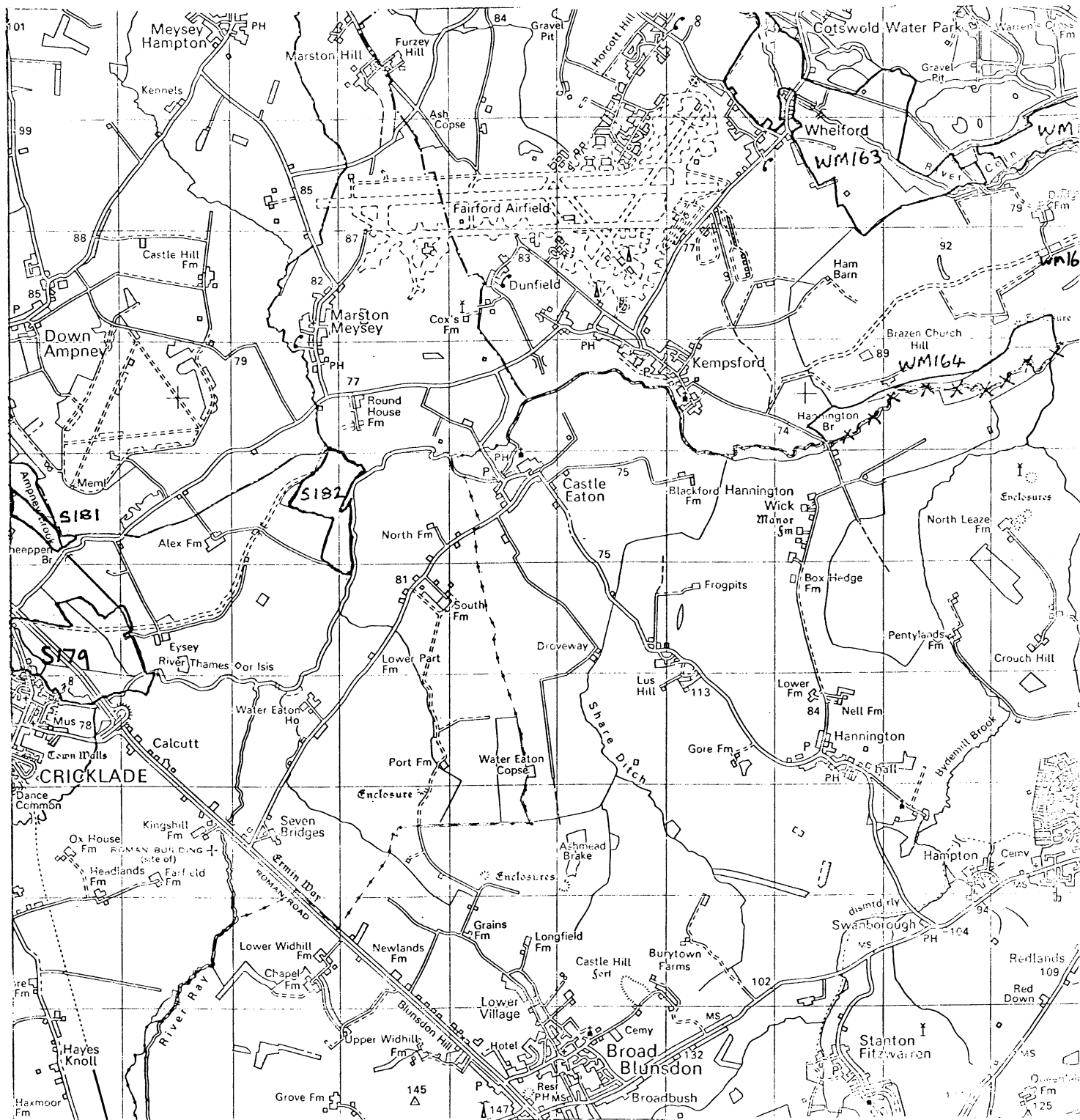
<input type="checkbox"/>	P	<input checked="" type="checkbox"/>	B
<input type="checkbox"/>	I	<input type="checkbox"/>	O

GLoucestershire

WM170 Ref: 722

<input type="checkbox"/>	P	<input checked="" type="checkbox"/>	B
<input type="checkbox"/>	I	<input type="checkbox"/>	O

GLoucestershire

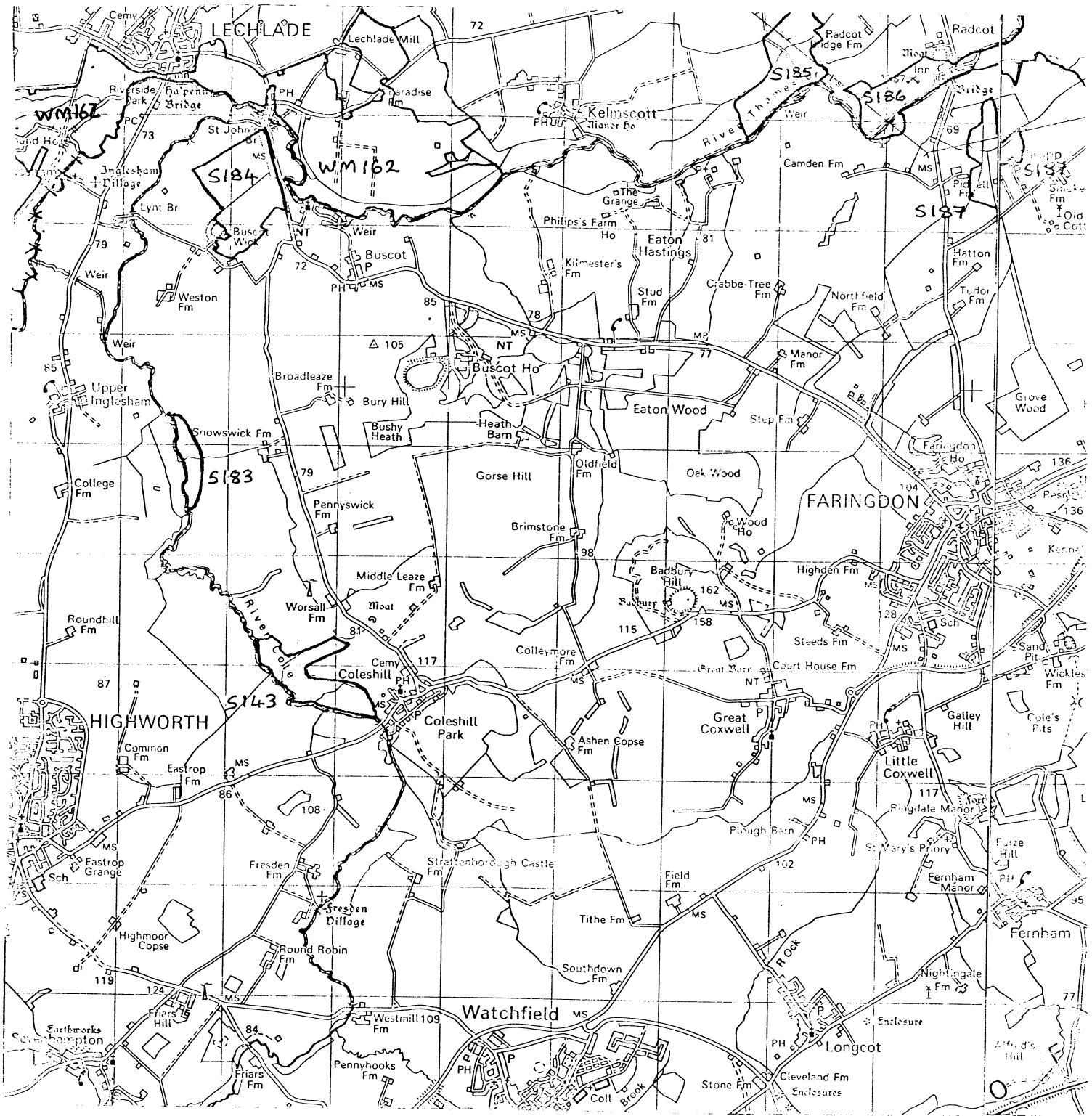


SU19 Sheet 163

WM162 Ref: 51

⊗	P	□	B
□	I	□	O

GLoucestershire



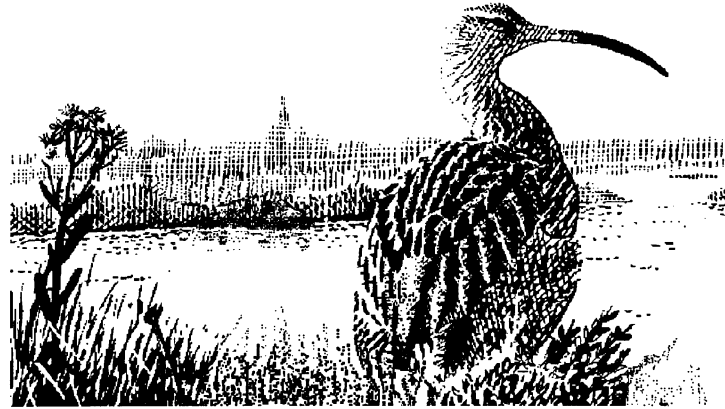
SU29 Sheets 163,164

WM162 Ref: 51

⊗	P	□	B
□	I	□	O

GLoucestershire

LOWLAND WET
GRASSLAND



R E S O U R C E S U R V E Y

LOWLAND WET GRASSLAND
BIOTA REFERENCE INVENTORY

BIOTA REFERENCE INVENTORY

All references listed follow a standard format, based on information recorded on pro-formas and entered into a PARADOX relational database. The page numbers on the bibliographic references relate to a PARADOX reporting structure, and should be ignored. Required references should be located by their Ref_key. The details for each bibliographic reference are as follows:

Ref_key Unique reference number, ordered in sequence of entry to database. References are presented in ascending order. References restricted to other English Nature regions are presented in the relevant volumes, therefore there are gaps in the number sequence. The Ref_key number has no further significance other than use for an indexing system.

Date_year Date of reference publication/production.

Status_code Y - Details in English Nature STATUS Database
N - Details not found in STATUS Database

Title Title of report or information source. For Invertebrate Site Register (ISR) records the site name is entered here.

Location_code English Nature office location code, as used in STATUS database. Location codes are as follows:

ATT	Attingham	NW	Newcastle
ATTB	Overhaddon	NWL	Leyburn
ATTM	Malvern	NWY	York
ATTW	Banbury	P	Peterborough HQ
BR	Foxhold	PG	Grantham
BRD	Devizes	PH	Beds, Cambs, & Northants Team
BRL	Lyndhurst	T	Taunton
M	Bowness	TK	Trelissick
MB	Blackrod	TS	Slepe Farm
MW	Wakefield	TT	Okehampton
N	Norwich	W	Wye
NB	Bury St. Edmunds	WL	Lewes
NC	Colchester	WLN	London

Authors Names of authors. For ISR records the ISR site code is given.

Publisher Name of publisher

Site_no Number of sites surveyed

Confidential Y - report listed as confidential
N - report not listed as confidential

Area Included in the database for area of survey figures. This category has not been used, as survey areas rarely correspond accurately with

lowland wet grassland blocks, and an area of survey figure could be misleading in the context of this contract.

Species Types of biota surveyed. (Plants, invertebrates, birds, other) X in box indicates type(s) present.

Management X in box indicates that source has details of ditch and or grassland management.

Information X in box indicates that source has details of historical use, (site) evaluation or water quality information.

Attributes X in box indicates that report has details of negative, positive or potential character of wet grassland blocks.

Habitat_type Habitat types are coded as follows:

NCR	Nature Conservation Review
NVC	National Vegetation Classification
Other	Other type (specified in abstract)
Page	Page grassland classification
Phase 1	English Nature Standard
Phase 2	English Nature Standard
Phase 3	English Nature Standard

Method_type Standard methods of survey are listed as follows:

Ditch Length	
Other	Specified on abstract
Quadrat	
Transect	
Trap	Invertebrates

For ISR records methods are not given, as information is from non-standard sources.

Abstract A brief summary of other information from the source is given where access was available to the original report. Information given in other sections is not duplicated. Where other sections have been coded as **Other**, further information is given if it was available. Important features of interest are listed (eg. presence, location and area of MG4 vegetation).

The abstract can be prefixed with the following codes:

DOS - Date of survey

TOS - Time of survey

Other S-H - Source contains information on other species and habitats.

If these codes are missing the information was not present or not explicit enough for inclusion.

ISR (Invertebrate Site Register) sources are treated differently. ISR records have been included where they occur **within**, or in **close proximity** to wet grassland blocks.

The name of the ISR record is added to the **Title** record, and the ISR site code is added to the **Authors** record.

For ISR records the abstract is prefixed with the following codes:

NOR - Number of records

NOS - Number of species recorded

NRDB - Number of RDB (Red Data Book) species recorded

NON - Number of Notable species recorded

SY - Source Years. The number of information sources that exist for a site divided by the number of years that records have been recorded for that site.

Block_# Wet grassland block numbers corresponding with geographical areas from the reference survey.

Status Y - Block has conservation status (eg: SSSI, NNR, RAMSAR)
N - Block status is uncertain

Great care must be taken when interpreting this column. It is not a complete or exhaustive reference for conservation status. This information was often not present in reports, or was difficult or impossible to assign geographically. This field has primarily been included in the database for English Nature to develop at will.

Coverage C - Complete coverage. Indicates that survey data corresponds exactly with the identified wet grassland block boundary (unusual).
P - Partial coverage. Indicates that survey data listed in the reference relates to only a **portion** of the wet grassland block, and may also refer to ground in the vicinity of, but outside, the wet grassland block.

The letter prefix indicates the English Nature region that the block is sourced from (eg. NW17 is block No. 17 in the North West region). To locate blocks refer to the block reference listings in the Block Details section at the end of this document using the block number. These contain the 8 figure alpha-numeric block centroid grid reference. The 10km square reference can be calculated from this. (eg: NW17 grid reference NY214579 will be found in 10km square NY25). The required block can then be found by referring to the 10km maps bound in this regional volume. They are arranged in ascending alpha-numeric code. Maps are only included if they contain wet grassland blocks identified in Modules 1 or 2 of this survey. Therefore there will not be entire map coverage of an English Nature region. The map section starts with a regional distribution map, which provides a key for the 10km maps.

Ref_key : 30 Date_year : 1992 Status_code : Y

Title : Worcestershire grasslands 1992 provisional resource inventory.

Authors : Fraser, A.J.L & Stevenson, K.

Publisher : EN/WMIDS/WNCT Site_no :

Confidential : N Area :

Location_code
ATTM
P

Block_#	Status	Coverage
WM107	N	P
WM109	N	P
WM137	N	P
WM138	N	P
WM140	N	P
WM146	N	P
WM147	N	P

Species: Plants Inverts
 Birds Other

Management: Ditch Grassland

Information: Historical Evaluation Water Quality

Attributes: Negative Positive Potential

Habitat_type
NVC

Method_type
Other

Abstract : Scope: DOS 1992 Abstract: WNCT=Worcestershire Nature Conservation Trust. Report set out to describe the grasslands in Worcestershire. Inventory created for each 10km square. Threats,damage and destruction are listed along with NVC data. MG 7,9,10, and MG4. U4.

Ref_key : 31 Date_year : 1982 Status_code : Y

Title : Shopshire grasslands: a botanical survey of selected sites. Location_code
P

Authors : Welsh, P.

Publisher : NCC Site_no : 106

Confidential : N Area :

Block_#	Status	Coverage
WM50	N	P

Species: Plants Inverts
 Birds Other

Management: Ditch Grassland

Information: Historical Evaluation Water Quality

Attributes: Negative Positive Potential

Habitat_type
Phase 2

Method_type
Quadrat

Abstract : Scope: DOS 1981-82/TOS May-Jul. Abstract: Info collected for separate communities used to evaluate importance for nature conservation. Page classification used. Record cards held by ARO, ATT Shrewsbury. Evaluation for SSSI selection and other conservation measures.

Ref_key : 32 Date_year : 1979 Status_code : N

Title : Survey of Shropshire, Cheshire & Staffordshire meres. Location_code
P

Authors : NCC/EFU

Publisher : NCC Site_no : 52

Confidential : N Area :

Block_#	Status	Coverage
WM47	N	P

Species: Plants Inverts
 Birds Other

Management: Ditch Grassland

Information: Historical Evaluation Water Quality

Attributes: Negative Positive Potential

Habitat_type

Method_type
Ditch Length
Other

Abstract : Scope: DOS 1979-80/TOS Sept-Oct. Abstract: N/A
--

Ref_key : 33 Date_year : 1987 Status_code : N

Title : Survey of Shropshire and Cheshire Meres (1987) Location_code
 EFU report No. 59 P

Authors : England Field Unit

Publisher : NCC/EFU Site_no : 19

Confidential : N Area :

Block_#	Status	Coverage
WM47	N	P

Species: Plants Inverts
 Birds Other

Management: Ditch Grassland

Information: Historical Evaluation Water Quality

Attributes: Negative Positive Potential

Habitat_type
Other

Method_type
Other

Abstract : Scope: DOS 1987/TOS Aug-Sep. Abstract: Survey of aquatic macrophytes conducted in 19 Shrops & Cheshire meres. Rooted stands were sampled by grapnel from boat, observation, and examination of littoral debris. Spp. distribution maps drawn. Water conductivity data. Trophic score derived for each mere. Recommendations for further monitoring.

Ref_key : 34 Date_year : 1987 Status_code : Y

Title : Unimproved grassland survey of Cheshire.

Authors : Drage, J.

Publisher : NCC

Confidential : Y

Site_no : 75

Area :

Location_code
ATT
P

Block_#	Status	Coverage
WM33	N	P
WM40	N	P
WM44	N	P
WM47	N	P

Species: Plants Inverts

Birds Other

Management: Ditch Grassland

Information: Historical Evaluation Water Quality

Attributes: Negative Positive Potential

Habitat_type
NVC Phase 2

Method_type
Other Quadrat

Abstract : Scope: DOS 1987. Abstract: 44 of 75 sites surveyed in detail. 11 were SSSI's. Aerial photos were used. Soil and moss samples taken. Few rarities or notables were found. NVC: MG 1,5, 6,9,10, M22,23.

Ref_key : 35 Date_year : 1987 Status_code : Y

Title : A botanical survey of neutral grassland in Gloucestershire, Hereford & Worcestershire.

Authors : Mc. Donald, A.W. & Silvester, Y.

Publisher : NCC/MM Site_no : 59

Confidential : Y Area :

Location_code
ATT
ATTM

Block_#	Status	Coverage
WM119	N	P
WM123	N	P
WM126	N	P
WM137	N	P
WM140	N	P
WM143	N	P
WM144	N	P
WM146	N	P
WM157	N	P
WM171	N	P
WM183	N	P

Species: Plants Inverts
 Birds Other

Management: Ditch Grassland

Information: Historical Evaluation Water Quality

Attributes: Negative Positive Potential

Habitat_type
NVC Phase 2

Method_type
Other Quadrat

Abstract : Scope: DOS 1987/TOS Summer. Abstract: Sites surveyed on basis of previous P1 survey. Total of 335 plant Spp. identified. Brief descriptions of history & geology. MG 4: 6.9ha in WM 171 + GC Newts, 1.75ha in WM 157, 66ha MG4/7 in WM 140. MG4 also at SO 857 316, 4.8ha, SP 187 250, 1.2ha, SP 178 244, 17.1ha (part), MG4a at SO 837 317, MG4 at SO 829 308 2.75ha.

Ref_key : 36 Date_year : 1987 Status_code : N

Title : The breeding waders of the Vyrnwy confluence
 Salop/Powys 1987.

Authors : Mycock, R. & Stowe, T.J.

Publisher : RSPB, Droitwich Site_no :

Confidential : Y Area :

Block_#	Status	Coverage
WM48	N	P
WM49	N	P

Species: Plants Inverts
 Birds Other

Management: Ditch Grassland

Information: Historical Evaluation Water Quality

Attributes: Negative Positive Potential

Habitat_type
Other

Method_type
Other

Abstract : Scope: DOS 1987/TOS Spring-Summer. Abstract: Survey used BTO and WSG monitoring scheme, brief habitat descriptions. Survey aimed to determine ornithological value, and recommending SSSI designation on these grounds. Discusses wader activity, preferences, and behaviour, and effects of water level.

Ref_key : 37 Date_year : 1983 Status_code : N

Title : Wildfowl and waders on the Vyrnwy confluence
(Mont/Shropshire) winter 1982/3.

Authors : Crosby, M.J.

Publisher : RSPB, Newtown. Site_no :

Confidential : Y Area :

Block_#	Status	Coverage
WM48	N	P
WM49	N	P

Species: Plants Inverts
 Birds Other

Management: Ditch Grassland

Information: Historical Evaluation Water Quality

Attributes: Negative Positive Potential

Habitat_type

Method_type
Other

Abstract : Scope: DOS 1981-2 & 82-3/TOS winter/Other S-H.
 Abstract: Counts were made on route walks. Comments on No.s, Spp., behaviour and preferences. Wildfowl, waders, and other Spp.s. Found No.s related positively to area of standing flood water.

Ref_key : 51 Date_year : 1979 Status_code : Y

Title : Unimproved permanent pasture in the Upper Thames and Ray Valleys of Oxfordshire; field surveys 1978. Location_code
P

Authors : NCC South Region

Publisher : NCC Site_no :

Confidential : N Area :

Block_#	Status	Coverage
S185	N	P
S186	N	P
S193	N	P
S194	N	P
S195	N	P
S198	N	P
S199	N	P
S205	N	P
S206	N	P
S207	N	P
S209	N	P
S210	N	P
S213	N	P
S214	N	P
S216	N	P
S217	N	P
S227	N	P
S229	N	P
WM162	N	P

Species: Plants Inverts
 Birds Other

Management: Ditch Grassland

Information: Historical Evaluation Water Quality

Attributes: Negative Positive Potential

Habitat_type
Other

Method_type
Other

Abstract : Scope: DOS 1978/TOS Jun-Jul. Abstract: Each field visited by foot. Suitable sites were numbered and recorded on habitat cards. Method developed for selecting floristically rich pastures by characteristic Spp.

Ref_key : 179 Date_year : 1993 Status_code :

Title : English Nature Grassland Inventory - Hereford and Worcestershire

Authors : English Nature.

Publisher : EN Site_no :

Confidential : N Area :

Block_#	Status	Coverage
WM107	N	P
WM108	N	P
WM109	N	P
WM117	N	P
WM122	N	P
WM123	N	P
WM126	N	P
WM138	N	P
WM140	N	P
WM146	N	P

Species: Plants Inverts
 Birds Other

Management: Ditch Grassland

Information: Historical Evaluation Water Quality

Attributes: Negative Positive Potential

Abstract : Abstract: Site Codes: WM 122 - HW/SO34/TO1. WM117 - HW/SO36/BO1 or HW/SO38/BO1. WM123 - HW/SO44/BO1. WM126 - HW/SO54/LO1. WM138 - HW/SO84/AO1. WM149 - HW/SO84/UO!. WM107 - HW/SO87/SO1. WM108 - HW/SO87/WO1. WM109 - HW/SO87/WO1. WM146 - HW/SO93/RO1.

Ref_key : 190 Date_year : 1982 Status_code :

Title : Survey of breeding waders of wet meadows. - Cheshire.

Authors : Doody, P. & others.

Publisher : Site_no :

Confidential : N Area :

Block_#	Status	Coverage
WM29	N	P
WM3	N	P
WM36	N	P
WM4	N	P
WM44	N	P
WM6	N	P

Species: Plants Inverts
 Birds Other

Management: Ditch Grassland

Information: Historical Evaluation Water Quality

Attributes: Negative Positive Potential

Abstract :

Ref_key : 212 Date_year : 1982 Status_code :

Title : Survey of breeding waders of wet meadows. - Shropshire.

Authors : Doody, P. & others.

Publisher : Site_no :

Confidential : N Area :

Block_#	Status	Coverage
WM49	N	P

Species: Plants Inverts
 Birds Other

Management: Ditch Grassland

Information: Historical Evaluation Water Quality

Attributes: Negative Positive Potential

Abstract :

Ref_key : 214 Date_year : 1982 Status_code :

Title : Survey of breeding waders of wet meadows. - Staffordshire.

Authors : Doody, P. & others.

Publisher : Site_no :

Confidential : N Area :

Block_#	Status	Coverage
WM192	N	P
WM193	N	P
WM195	N	P
WM198	N	P
WM202	N	P
WM52*	N	P
WM54	N	P
WM55	N	P
WM55	N	P
WM59	N	P
WM69	N	P
WM83	N	P
WM95	N	P

Species: Plants Inverts
 Birds Other

Management: Ditch Grassland

Information: Historical Evaluation Water Quality

Attributes: Negative Positive Potential

Abstract :

Ref_key : 219 Date_year : 1982 Status_code :

Title : Survey of breeding waders of wet meadows. -
Worcestershire.

Location_code

Authors : Doody, P. & others.

Publisher :

Site_no :

Confidential :N

Area :

Block_#	Status	Coverage
WM107	N	P
WM139	N	P
WM142	N	P
WM143	N	P
WM146	N	P

- Species: Plants Inverts
 Birds Other
- Management: Ditch Grassland
- Information: Historical Evaluation Water Quality
- Attributes: Negative Positive Potential

Habitat_type

Method_type

Abstract :

Ref_key : 427 Date_year : Status_code :

Title : Twiggery Fields. SJ 6288. Location_code

Authors : ISR 15UA.

Publisher : Site_no :

Confidential : Y Area :

Block_#	Status	Coverage
WM4	N	P

Species: Plants Inverts

Birds Other

Management: Ditch Grassland

Information: Historical Evaluation Water Quality

Attributes: Negative Positive Potential

Habitat_type

Method_type

Abstract : R: 1. S: 1. RDB: 1. N: 0. SY: 1.

Ref_key : 559 Date_year : Status_code :

Title : Whitcliff Deer Park. ST 6797. Location_code

Authors : ISR 15LB.

Publisher : Site_no :

Confidential : Y Area :

Block_#	Status	Coverage
WM185	N	P

Species: Plants Inverts

Birds Other

Management: Ditch Grassland

Information: Historical Evaluation Water Quality

Attributes: Negative Positive Potential

Habitat_type

Method_type

Abstract : R: 4. S: 4. RDB: 0. N: 1. SY: 1.

Ref_key : 653 Date_year : Status_code :

Title : Hockenhull Platts. SJ 4765.

Authors : ISR 15TJ.

Publisher : Site_no :

Confidential : Y Area :

Block_#	Status	Coverage
WM36	N	P

Species: Plants Inverts
 Birds Other

Management: Ditch Grassland

Information: Historical Evaluation Water Quality

Attributes: Negative Positive Potential

Abstract : R: 9. S: 9. RDB: 0. N: 3. SY: 2. The site lies on the west bank of the river Gowy. Includes a herb rich meadow and a badly drained field, and a pond. The wet meadow supports kingcups and bur reed.

Ref_key : 654 Date_year : Status_code :

Title : Stream at Frodsham. SJ 5378. Location_code

Authors : ISR 15ZQ.

Publisher : Site_no :

Confidential : Y Area :

Block_#	Status	Coverage
WM29	N	P

Species: Plants Inverts
 Birds Other

Management: Ditch Grassland

Information: Historical Evaluation Water Quality

Attributes: Negative Positive Potential

Habitat_type

Method_type

Abstract : R: 2. S: 2. RDB: 0. N: 1. SY: 4. Stream.

Ref_key : 655 Date_year : Status_code :

Title : Quoisley Meres. SJ 5445.

Authors : ISR 15YH.

Publisher : Site_no :

Confidential :Y Area :

Block_#	Status	Coverage
WM47	N	P

Species: Plants Inverts

Birds Other

Management: Ditch Grassland

Information: Historical Evaluation Water Quality

Attributes: Negative Positive Potential

Abstract : R: 7. S: 7. RDB: 0. N: 3. SY: 3. Nutrient rich meres with a well developed fringe vegetation. An area of damp grassland supports purple small-reed.

Ref_key : 656 Date_year : Status_code :

Title : Stream near Beechmill Wood. SJ 5476. Location_code

Authors : ISR 15ZR.

Publisher : Site_no :

Confidential : Y Area :

Block_#	Status	Coverage
WM29	N	P

Species: Plants Inverts

Birds Other

Management: Ditch Grassland

Information: Historical Evaluation Water Quality

Attributes: Negative Positive Potential

Habitat_type

Method_type

Abstract : R: 1. S: 1. RDB: 0. N: 1. SY: 3. Stream.

Ref_key : 657 Date_year : Status_code :

Title : Warburton's Wood. SJ 5576.

Authors : ISR 15ZE.

Publisher : Site_no :

Confidential : Y Area :

Block_#	Status	Coverage
WM29	N	P

Species: Plants Inverts

Birds Other

Management: Ditch Grassland

Information: Historical Evaluation Water Quality

Attributes: Negative Positive Potential

Abstract : R: 3. S: 2. RDB: 0. N: 1. SY: 4. Ancient semi-natural woodland with small area of unimproved grassland including lady's mantle, betony, pignut, and lousewort.

Ref_key : 658 Date_year : Status_code :

Title : Barnton Cut. SJ 6374. Location_code

Authors : ISR 15SM.

Publisher : Site_no :

Confidential : Y Area :

Block_#	Status	Coverage
WM23	N	P

Species: Plants Inverts

Birds Other

Management: Ditch Grassland

Information: Historical Evaluation Water Quality

Attributes: Negative Positive Potential

Habitat_type

Method_type

Abstract : R: 1. S: 1. RDB: 0. N: 0. SY: 1. River and canal.

Ref_key : 659 Date_year : Status_code :

Title : Woolston Eyes. SJ6688. Location_code

Authors : ISR 15TF.

Publisher : Site_no :

Confidential :Y Area :

Block_#	Status	Coverage
WM5	N	P

Species: Plants Inverts
 Birds Other

Management: Ditch Grassland

Information: Historical Evaluation Water Quality

Attributes: Negative Positive Potential

Habitat_type

Method_type

Abstract : R: 9. S: 8. RDB: 0. N: 1. SY: 5. An area incorporating four large lagoons used for dredging deposition from the Manchester Ship Canal. At varying stages of colonisation, as lagoons are used on a 15 year rotation.

Ref_key : 660 Date_year : Status_code :

Title : Shugborough Park (non SSSI). SJ 9922.

Authors : ISR 15CW.

Publisher : Site_no :

Confidential : Y Area :

Block_#	Status	Coverage
WM55	N	P

Species: Plants Inverts
 Birds Other

Management: Ditch Grassland

Information: Historical Evaluation Water Quality

Attributes: Negative Positive Potential

Abstract : R: 1. S: 1. RDB: 0. N: 1. SY: 1.

Ref_key : 661 Date_year : Status_code :

Title : Broad Meadow. SK 1904. Location_code

Authors : ISR 15 CP.

Publisher : Site_no :

Confidential : Y Area :

Block_#	Status	Coverage
WM95	N	P

Species: Plants Inverts

Birds Other

Management: Ditch Grassland

Information: Historical Evaluation Water Quality

Attributes: Negative Positive Potential

Habitat_type

Method_type

Abstract : R: 0. S:- RDB:- N: - SY: 1.

Ref_key : 662 Date_year : Status_code :

Title : Rowsley Sidings. SK 260 649.

Authors : ISR 15EL.

Publisher : Site_no :

Confidential : Y Area :

Block_#	Status	Coverage
WM12	N	P

Species: Plants Inverts

Birds Other

Management: Ditch Grassland

Information: Historical Evaluation Water Quality

Attributes: Negative Positive Potential

Abstract : R: 10. S: 10. RDB: 0. N: 2. SY: 5.

Ref_key : 663 Date_year : Status_code :

Title : The Flits. SO 3741.

Authors : ISR 15FB.

Publisher : Site_no :

Confidential : Y Area :

Block_#	Status	Coverage
WM122	N	P

Species: Plants Inverts
 Birds Other

Management: Ditch Grassland

Information: Historical Evaluation Water Quality

Attributes: Negative Positive Potential

Abstract : R: 64. S: 54. RDB: 0. N: 17. SY: 14. Most of site is marshy grassland, local dominants include meadow-sweet, *Filipendula ulmaria*, and fleabane, *Pulicaria dysenterica*.

Ref_key : 664 Date_year : Status_code :

Title : Lugg Meadows SSSI. SO 531 411.

Authors : ISR 15WK.

Publisher : Site_no :

Confidential : Y Area :

Block_#	Status	Coverage
WM126	Y	P

Species: Plants Inverts

Birds Other

Management: Ditch Grassland

Information: Historical Evaluation Water Quality

Attributes: Negative Positive Potential

Abstract : R: 9. S: 9. RDB: 0. N: 3. SY: 3. Part of the Lugg Meadows complex managed traditionally as a hay meadow. Grasses dominating the sward include meadow foxtail, *Alopecurus pratensis*, sweet vernal grass, *Anthoxanthum odoratum*, soft brome, *Bromus mollis*, red fescue *Festuca rubra*, and crested dog's-tail, *Cynosurus cristatus*.

Ref_key : 665 Date_year : Status_code :

Title : Frampton Pools SSSI. SO 7507. Location_code

Authors : ISR 15HS.

Publisher : Site_no :

Confidential : Y Area :

Block_#	Status	Coverage
WM175	Y	P

Species: Plants Inverts
 Birds Other

Management: Ditch Grassland

Information: Historical Evaluation Water Quality

Attributes: Negative Positive Potential

Habitat_type

Method_type

Abstract : R: 14. S: 10. RDB: 0. N: 1. SY: 21. A complex of flooded gravel pits and three ponds on the village green of Framton on Severn.

Ref_key : 666 Date_year : Status_code :

Title : Sandhurst Reserve. SO 8123.

Authors : ISR 15HU.

Publisher : Site_no :

Confidential : Y Area :

Block_#	Status	Coverage
WM144	N	P

Species: Plants Inverts
 Birds Other

Management: Ditch Grassland

Information: Historical Evaluation Water Quality

Attributes: Negative Positive Potential

Abstract : R: 59. S: 49. RDB: 2. N: 13. SY: 16. Two areas of disused, water-filled brickpits on the east bank of the river Severn with marsh, open-water, and carr habitats.

Ref_key : 667 Date_year : Status_code :

Title : Wilden Marsh & Meadows SSSI. SO8273.

Authors : ISR 15VN.

Publisher : Site_no :

Confidential : Y Area :

Block_#	Status	Coverage
WM108	Y	P
WM109	Y	P

Species: Plants Inverts
 Birds Other

Management: Ditch Grassland

Information: Historical Evaluation Water Quality

Attributes: Negative Positive Potential

Abstract : R: 1. S: 1. RDB: 0. N: 1. SY: 1. The site includes examples of fen, damp meadow, marshy grassland and carr. There are substantial areas of neutral damp grassland, some of which is grazed, some is neglected. The areas of neglected grassland and marsh are particularly rich. Plants such as fen bedstraw, *Galium uliginosum* and marsh cinquefoil, *Potentilla palustris* are found.

Ref_key : 668 Date_year : Status_code :

Title : Coombe Hill Canal & Meadows SSSI. SO 8726.

Authors : ISR 15HR.

Publisher : Site_no :

Confidential : Y Area :

Block_#	Status	Coverage
WM144	Y	P

Species: Plants Inverts
 Birds Other

Management: Ditch Grassland

Information: Historical Evaluation Water Quality

Attributes: Negative Positive Potential

Abstract : R: 154. S: 106. RDB: 1. N: 30. SY: 19. Disused canal adjoining the river Severn, with a rich aquatic flora. The extensive alluvial meadows surrounding the canal are flooded in winter.

Ref_key : 669 Date_year : Status_code :

Title : Tewkesbury. SO 8831. Location_code

Authors : ISR 1503.

Publisher : Site_no :

Confidential : Y Area :

Block_#	Status	Coverage
WM144	N	P

Species: Plants Inverts
 Birds Other

Management: Ditch Grassland

Information: Historical Evaluation Water Quality

Attributes: Negative Positive Potential

Habitat_type

Method_type

Abstract : R: 87. S: 91. RDB: 0. N: 9. SY: 26. Grid ref given for "Tewkesbury" by Atty (1983, 'Col. of Glos'.) corresponds to Severn Ham SSSI. Presumably Atty's record are from this SSSI, but older records should be regarded with some caution.

Ref_key : 670 Date_year : Status_code :

Title : River Severn, Bushley. SO 8834.

Authors : ISR 15XK.

Publisher : Site_no :

Confidential : Y Area :

Block_#	Status	Coverage
WM143	N	P

Species: Plants Inverts
 Birds Other

Management: Ditch Grassland

Information: Historical Evaluation Water Quality

Attributes: Negative Positive Potential

Abstract : R: 0. S:-. RDB:- N:- SY: 0.

Ref_key : 671 Date_year : Status_code :

Title : Severn Ham, Tewkesbury SSSI. SO 885 325. Location_code

Authors : ISR 15Q9.

Publisher : Site_no :

Confidential : Y Area :

Block_#	Status	Coverage
WM144	Y	P

Species: Plants Inverts
 Birds Other

Management: Ditch Grassland

Information: Historical Evaluation Water Quality

Attributes: Negative Positive Potential

Habitat_type

Method_type

Abstract : R: 25. S: 22. RDB: 0. N: 7. SY: 8. One of the last remaining traditionally managed hay meadows overlying the Severn Vale alluvium, and subject to winter flooding. The major habitat is neutral grassland, much of this is semi-improved, but an area in the northern part is excluded from all herbicide and fertiliser treatment and has a very rich flora.

Ref_key : 672 Date_year : Status_code :

Title : River Avon, Bredon's Hardwick. SO 9035.

Authors : ISR 15XL.

Publisher : Site_no :

Confidential : Y Area :

Block_#	Status	Coverage
WM146	N	P

Species: Plants Inverts
 Birds Other

Management: Ditch Grassland

Information: Historical Evaluation Water Quality

Attributes: Negative Positive Potential

Abstract : R: 8. S: 8. RDB: 0. N: 3. SY: 2.

Ref_key : 673 Date_year : Status_code :

Title : River Avon, Bredon. SO 9136. Location_code

Authors : ISR 15XM.

Publisher : Site_no :

Confidential : Y Area :

Block_#	Status	Coverage
WM146	N	P

Species: Plants Inverts

Birds Other

Management: Ditch Grassland

Information: Historical Evaluation Water Quality

Attributes: Negative Positive Potential

Habitat_type

Method_type

Abstract : R: 3. S: 3. RDB: 0. N: 3. SY: 1. Open drain.

Ref_key : 674 Date_year : Status_code :

Title : River Avon, Bredon's Norton. SO 9238.

Authors : ISR 15XN.

Publisher : Site_no :

Confidential : Y Area :

Block_#	Status	Coverage
WM146	N	P

Species: Plants Inverts
 Birds Other

Management: Ditch Grassland

Information: Historical Evaluation Water Quality

Attributes: Negative Positive Potential

Abstract : R: 2. S: 2. RDB: 0. N: 2. SY: 2. Old pasture.

Ref_key : 675 Date_year : Status_code :

Title : The Whitway Wall. SP 0204. Location_code

Authors : ISR 15KD.

Publisher : Site_no :

Confidential :Y Area :

Block_#	Status	Coverage
WM167	N	P
WM168	N	P

Species: Plants Inverts

Birds Other

Management: Ditch Grassland

Information: Historical Evaluation Water Quality

Attributes: Negative Positive Potential

Habitat_type

Method_type

Abstract : R: 1. S: 1. RDB: 0. N: 1. SY: 1.

Ref_key : 676 Date_year : Status_code :

Title : Perrots Brook Woods and Meadows. SP 0205.

Authors : ISR 15IL.

Publisher : Site_no :

Confidential : Y Area :

Block_#	Status	Coverage
WM167	N	P

Species: Plants Inverts
 Birds Other

Management: Ditch Grassland

Information: Historical Evaluation Water Quality

Attributes: Negative Positive Potential

Abstract : R: 16. S: 15. RDB: 0. N: 2. SY: 7. R. Churn flanked by coppice wood and marshy meadows.

Ref_key : 677 Date_year : Status_code :

Title : Windmill Hill. SP 0747.

Authors : ISR 15FR.

Publisher : Site_no :

Confidential : Y Area :

Block_#	Status	Coverage
WM136	N	P

Species: Plants Inverts

Birds Other

Management: Ditch Grassland

Information: Historical Evaluation Water Quality

Attributes: Negative Positive Potential

Abstract : R: 6. S: 6. RDB: 0. N: 3. RDB: 7. Site lies on west facing slope overlooking R. Avon. An area of unimproved calcareous grassland, noted for its rich flora. Some scrub colonisation.

Ref_key : 678 Date_year : Status_code :

Title : Coughton Court. SP 0860.

Authors : ISR 15MF.

Publisher : Site_no :

Confidential : Y Area :

Block_#	Status	Coverage
WM129	N	P

Species: Plants Inverts

Birds Other

Management: Ditch Grassland

Information: Historical Evaluation Water Quality

Attributes: Negative Positive Potential

Abstract : R: 7. S: 6. RDB: 0. N: 2. SY: 5. Ancient parkland at confluence of R. Arrow amd Cain Brook. Southern section has good tree cover over lightly grazed unimproved meadows, many old large Oaks.

Ref_key : 679 Date_year : Status_code :

Title : River Coln. SP 1403. Location_code

Authors : ISR 15JY.

Publisher : Site_no :

Confidential : Y Area :

Block_#	Status	Coverage
WM165	N	P

Species: Plants Inverts

Birds Other

Management: Ditch Grassland

Information: Historical Evaluation Water Quality

Attributes: Negative Positive Potential

Habitat_type

Method_type

Abstract : R: 10. S: 10. RDB: 0. N: 4. SY: 5.

Ref_key : 680 Date_year : Status_code :

Title : Bourton Gravel Pits. SP 1720. Location_code

Authors : ISR 15RZ.

Publisher : Site_no :

Confidential : Y Area :

Block_#	Status	Coverage
WM157	N	P
WM158	N	P

Species: Plants Inverts

Birds Other

Management: Ditch Grassland

Information: Historical Evaluation Water Quality

Attributes: Negative Positive Potential

Habitat_type

Method_type

Abstract : R: 14. S: 14. RDB: 0. N: 4. SY: 0. Gravel pits near Bourton.
Some records also from banks of R. Windrush at Bourton.

Ref_key : 681 Date_year : Status_code :

Title : Newbridge Meadow. SP 180 178.

Authors : ISR 1502.

Publisher : Site_no :

Confidential : Y Area :

Block_#	Status	Coverage
WM158	N	P

Species: Plants Inverts
 Birds Other

Management: Ditch Grassland

Information: Historical Evaluation Water Quality

Attributes: Negative Positive Potential

Abstract : R: 10. S: 10. RDB:0 . N: 0. SY: 2. Alluvial meadow, mostly "improved" but wet with rushes in some places and taller vegetation adjacent to R. Windrush with greater burnet, meadowsweet, angelica, comfrey, hairy willow-herb and scattered willows and hawthorns.

Ref_key : 684 Date_year : Status_code :

Title : Whitcliff Deer Park. ST 6797. Location_code

Authors : ISR 15LB.

Publisher : Site_no :

Confidential : Y Area :

Block_#	Status	Coverage
WM185	N	P

Species: Plants Inverts

Birds Other

Management: Ditch Grassland

Information: Historical Evaluation Water Quality

Attributes: Negative Positive Potential

Habitat_type

Method_type

Abstract : R: 4. S: 4. RDB: 0. N: 1. SY: 1.

Ref_key : 700 Date_year : 1993 Status_code :

Title : National Waterfowl Counts 1960-61 & 1992-93. Location_code
 Derbyshire

Authors : Wildfowl and Wetlands Trust

Publisher : Site_no :

Confidential : Area :

Block_#	Status	Coverage
WM14	N	P
WM16	N	P
WM167	N	P
WM22	N	P
WM71	N	P
WM74	N	P
WM75	N	P
WM78	N	P

Species: Plants Inverts
 Birds Other

Management: Ditch Grassland

Information: Historical Evaluation Water Quality

Attributes: Negative Positive Potential

Habitat_type

Method_type

Abstract : Info held at Wildfowl and Wetlands Trust

Ref_key : 701 Date_year : 1993 Status_code :

Title : National Waterfowl Counts 1960-61 & 1992-93.
Cheshire

Authors : Wildfowl and Wetlands Trust

Publisher : Site_no :

Confidential : Area :

Block_#	Status	Coverage
WM25	N	P
WM42	N	P
WM43	N	P
WM5	N	P

Species: Plants Inverts

Birds Other

Management: Ditch Grassland

Information: Historical Evaluation Water Quality

Attributes: Negative Positive Potential

Abstract : Info held at Wildfowl and Wetlands Trust

Ref_key : 702 Date_year : 1993 Status_code :

Title : National Waterfowl Counts 1960-61 & 1992-93.
Staffordshire

Authors : Wildfowl and Wetlands Trust

Publisher : Site_no :

Confidential : Area :

Block_#	Status	Coverage
WM204	N	P
WM53	N	P
WM54	N	P
WM55	N	P
WM95	N	P

Species: Plants Inverts
 Birds Other

Management: Ditch Grassland

Information: Historical Evaluation Water Quality

Attributes: Negative Positive Potential

Abstract : Info held at Wildfowl and Wetlands Trust

Ref_key : 703	Date_year : 1993	Status_code :
Title : National Waterfowl Counts 1960-61 & 1992-93. Warwickshire		Location_code
Authors : Wildfowl and Wetlands Trust		
Publisher :	Site_no :	
Confidential :	Area :	

Block_#	Status	Coverage
WM148	N	P
WM90	N	P

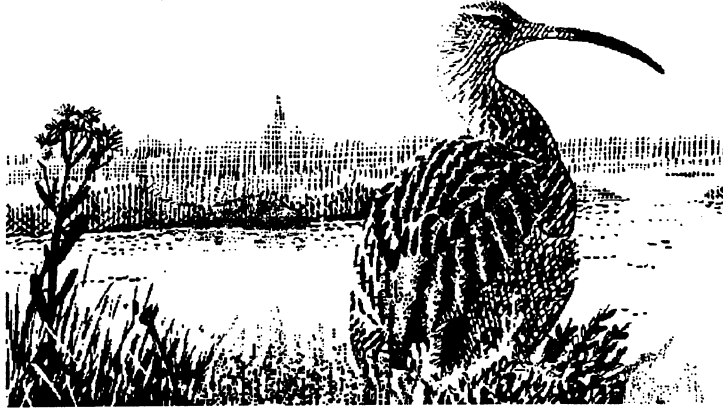
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	<input checked="" type="checkbox"/> Birds	<input type="checkbox"/> Other	
Management:	<input type="checkbox"/> Ditch	<input type="checkbox"/> Grassland	
Information:	<input type="checkbox"/> Historical	<input type="checkbox"/> Evaluation	<input type="checkbox"/> Water Quality
Attributes:	<input type="checkbox"/> Negative	<input type="checkbox"/> Positive	<input type="checkbox"/> Potential

Habitat_type

Method_type

Abstract : Info held at Wildfowl and Wetlands Trust

LOWLAND WET
GRASSLAND



R E S O U R C E S U R V E Y

LOWLAND WET GRASSLAND
BLOCK DETAILS

WEST MIDLANDS REGION

Key to codes used in listing

- Source
- 1 County/district Phase 1 survey
 - 2 SSSI habitat map
 - 3 Published report (see text for reference)
 - 4 Other type(s) of survey (see text for details)
 - 5 Air photo interpretation
- Origin (soil parent material): M=marine alluvium R=river alluvium P=peat
O=other non-marine

Block Number	Grid Reference	OS 1:50,000 sheet number	County or District	Survey source type	Area (hectares)	Soil parent material type
WM1	SJ466823	108	CESHIRE	1	11	O
WM2	SJ472828	108	CESHIRE	1	27	O
WM3	SJ565845	108	CESHIRE	1	173	M
WM4	SJ632885	109	CESHIRE	1	67	R
WM5	SJ663878	109	CESHIRE	1	100	O,R
WM6	SJ680880	109	CESHIRE	1	50	R,M
WM7	SJ677890	109	CESHIRE	1	21	O
WM8	SJ684891	109	CESHIRE	1	13	R
WM9	SJ693884	109	CESHIRE	1	26	O,R
WM10	SK226675	119	DERBYSHIRE	1	77	R
WM11	SK250658	119	DERBYSHIRE	1	44	R
WM12	SK260650	119	DERBYSHIRE	1	14	R
WM13	SK275620	119	DERBYSHIRE	1	140	R
WM14	SK338535	119	DERBYSHIRE	1	17	O
WM15	SK344500	119	DERBYSHIRE	1	62	R
WM16	SK163470	119	DERBYSHIRE	1	140	R
WM17	SK161450	119	DERBYSHIRE	1	22	R
WM18	SK190467	119	DERBYSHIRE	1	45	R
WM19	SK118420	119	DERBYSHIRE	1	17	R
WM20	SK125400	119,128	DERBYSHIRE	1	35	R
WM21	SK330443	119	DERBYSHIRE	1	88	R
WM22	SK359400	119,128	DERBYSHIRE	1	123	R
WM23	SJ630741	118	CESHIRE	1	29	R
WM24	SJ667747	118	CESHIRE	1	29	O
WM25	SJ913714	118	CESHIRE	1	129	O,P

Key to codes used in listing

Source

- 1 County/district Phase 1 survey
- 2 SSSI habitat map
- 3 Published report (see text for reference)
- 4 Other type(s) of survey (see text for details)
- 5 Air photo interpretation

Origin (soil parent material): M=marine alluvium R=river alluvium P=peat
O=other non-marine

Block Number	Grid Reference	OS 1:50,000 sheet number	County or District	Survey source type	Area (hectares)	Soil parent material type
WM26	SJ953555	118	STAFFORDSHIRE	1	17	O
WM27	SJ940540	118	STAFFORDSHIRE	1,5	116	R
WM28	SJ910519	118	STAFFORDSHIRE	1,5	50	R
WM29	SJ540780	117	CHESHIRE	1	106	R
WM30	SJ470770	117	CHESHIRE	1	137	M
WM31	SJ472755	117	CHESHIRE	1	131	M
WM32	SJ417755	117	CHESHIRE	1	29	O
WM33	SJ435738	117	CHESHIRE	1	258	P,M
WM34	SJ440724	117	CHESHIRE	1	37	P
WM35	SJ452710	117	CHESHIRE	1	58	R
WM36	SJ460680	117	CHESHIRE	1	322	R
WM37	SJ396695	117	CHESHIRE	1	28	O
WM38	SJ387674	117	CHESHIRE	1	35	O
WM39	SJ390657	117	CHESHIRE	1	28	M
WM40	SJ416650	117	CHESHIRE	1	98	P,O
WM41	SJ422610	117	CHESHIRE	1	22	R
WM42	SJ410594	117	CHESHIRE	1	14	R
WM43	SJ416595	117	CHESHIRE	1	52	R
WM44	SJ426584	117	CHESHIRE	1	12	R
WM45	SJ435586	117	CHESHIRE	1	38	R
WM46	SJ427495	117	CHESHIRE	1	81	R
WM47	SJ543460	117	CHESHIRE	1	119	P,O
WM48	SJ346179	126	SHROPSHIRE	1,4	13	R
WM49	SJ350165	126	SHROPSHIRE	1,4	125	R
WM50	SJ663330	127	SHROPSHIRE	1,4	17	R

Key to codes used in listing

Source	1	County/district Phase 1 survey
	2	SSSI habitat map
	3	Published report (see text for reference)
	4	Other type(s) of survey (see text for details)
	5	Air photo interpretation
Origin (soil parent material):	M=marine alluvium	R=river alluvium
	O=other non-marine	P=peat

- * Air photo interpretation revealed that block 52 in Phase 1 data had lost 10 ha to arable conversion and that the remainder (8 ha) was assimilated into a much larger block 53. There is therefore no block 52 in results incorporating air photo information.

Block Number	Grid Reference	OS 1:50,000 sheet number	County or District	Survey source type	Area (hectares)	Soil parent material type
WM51	SJ845327	127	STAFFORDSHIRE	1	45	R
WM52*	SJ896250	127	STAFFORDSHIRE	1,5	*	R,P
WM53	SJ910240	127	STAFFORDSHIRE	1,5	422	R,P
WM54	SJ950227	127	STAFFORDSHIRE	1,5	296	R,P
WM55	SJ985226	127	STAFFORDSHIRE	1,5	249	R,P
WM56	SJ626046	127	SHROPSHIRE	1,4	18	R
WM57	SJ640044	127	SHROPSHIRE	1,4	18	R
WM58	SK113385	128	STAFFORDSHIRE	1,4	12	R
WM59	SK110345	128	DERBYSHIRE	1	454	R
WM60	SK150320	128	DERBYSHIRE	1	130	R
WM61	SK150304	128	STAFFORDSHIRE	1	23	O
WM62	SK185309	128	STAFFORDSHIRE	1	18	R
WM63	SK203310	128	STAFFORDSHIRE	1	29	R
WM64	SK210310	128	STAFFORDSHIRE	1	10	O,R
WM65	SK217365	128	STAFFORDSHIRE	1	44	R
WM66	SK220350	128	STAFFORDSHIRE	1	21	R
WM67	SK236320	128	STAFFORDSHIRE	1	114	R
WM68	SK240304	128	STAFFORDSHIRE	1	17	R
WM69	SK240290	128	DERBYSHIRE	1	568	R,O
WM70	SK270280	128	DERBYSHIRE	1	80	O
WM71	SK310280	128	DERBYSHIRE	1	820	R
WM72	SK359279	128	DERBYSHIRE	1	55	R,O
WM73	SK375276	128	DERBYSHIRE	1	30	R,O
WM74	SK390274	128	DERBYSHIRE	1	66	R,O
WM75	SK387347	128	DERBYSHIRE	1	12	R

Key to codes used in listing

Source	1	County/district Phase 1 survey
	2	SSSI habitat map
	3	Published report (see text for reference)
	4	Other type(s) of survey (see text for details)
	5	Air photo interpretation
Origin (soil parent material):	M=marine alluvium	R=river alluvium
	O=other non-marine	P=peat

* Air photo interpretation revealed the loss of blocks WM79 and WM94. Photos also revealed the loss of 68 ha from block WM80, plus a 44 ha extension of grassland area for this block).

Block Number	Grid Reference	OS 1:50,000 sheet number	County or District	Survey source type	Area (hectares)	Soil parent material type
WM76	SK397335	128	DERBYSHIRE	1	19	O
WM77	SK362315	128	DERBYSHIRE	1	13	R
WM78	SK216190	128	DERBYSHIRE	1	41	R
WM79*	SK193144	128	STAFFORDSHIRE	1,5	40*	R
WM80	SK190090	128	STAFFORDSHIRE	1	98	R
WM81	SK504325	129	DERBYSHIRE	1	15	R
WM82	SK509318	129	DERBYSHIRE	1	15	R
WM83	SK260040	140	WARWICKSHIRE	1	60	O
WM84	SK282010	140	WARWICKSHIRE	1	20	R
WM85	SP314988	140	WARWICKSHIRE	1	41	O
WM86	SP322960	140	WARWICKSHIRE	1	99	O
WM87	SP350955	140	WARWICKSHIRE	1	38	O
WM88	SP315794	140	WEST MIDLANDS	4	16	O
WM89	SP403759	140	WARWICKSHIRE	1	33	R
WM90	SP430769	140	WARWICKSHIRE	1	129	R
WM91	SP454765	140	WARWICKSHIRE	1	55	O
WM92	SP463773	140	WARWICKSHIRE	1	19	O
WM93	SP524770	140	WARWICKSHIRE	1	62	O
WM94*	SK189076	139	STAFFORDSHIRE	1,5	19*	R
WM95	SK196040	139	STAFFORDSHIRE	1,5	166	R
WM96	SK210015	139	STAFFORDSHIRE	1,5	148	R
WM97	SK040030	139	WEST MIDLANDS	4	46	O
WM98	SP205910	139	WARWICKSHIRE	1	147	R,O
WM99	SP220897	139	WARWICKSHIRE	1	44	O
WM100	SP207890	139	WARWICKSHIRE	1	12	R

Key to codes used in listing

- Source
- 1 County/district Phase 1 survey
 - 2 SSSI habitat map
 - 3 Published report (see text for reference)
 - 4 Other type(s) of survey (see text for details)
 - 5 Air photo interpretation
- Origin (soil parent material): M=marine alluvium R=river alluvium P=peat
O=other non-marine

Block Number	Grid Reference	OS 1:50,000 sheet number	County or District	Survey source type	Area (hectares)	Soil parent material type
WM101	SP217876	139	WARWICKSHIRE	1	25	O
WM102	SP225869	139	WARWICKSHIRE	1	43	R
WM103	SP150880	139	WEST MIDLANDS	4	102	R
WM104	SP123870	139	WEST MIDLANDS	4	25	R
WM105	SP114855	139	WEST MIDLANDS	4	13	R
WM106	SO510845	137,138	SHROPSHIRE	1,4	397	R
WM107	SO831780	138	HEREFORD /WORCS	4	25	R
WM108	SO829743	138	HEREFORD/WORCS	4	13	R
WM109	SO825736	138	HEREFORD/WORCS	4	14	R
WM110	SO439810	137	SHROPSHIRE	1,4	52	R
WM111	SO362815	137	SHROPSHIRE	1,4	14	O
WM112	SO387762	137	HEREFORD/WORCS	4	11	O
WM113	SO383747	137	HEREFORD/WORCS	4	11	R
WM114	SO394740	137	HEREFORD/WORCS	4	14	R
WM115	SO410710	137	HEREFORD/WORCS	4	10	R
WM116	SO413705	137	HEREFORD/WORCS	4	12	R
WM117	SO363634	137,149	HEREFORD/WORCS	4	38	R
WM118	SO415588	149	HEREFORD/WORCS	4	11	R
WM119	SO337480	149	HEREFORD/WORCS	4	36	R
WM120	SO353476	149	HEREFORD/WORCS	4	13	R
WM121	SO357470	149	HEREFORD/WORCS	4	12	R
WM122	SO380410	149	HEREFORD/WORCS	4	16	O
WM123	SO425437	149	HEREFORD/WORCS	4	26	O
WM124	SO510464	149	HEREFORD/WORCS	4	12	R
WM125	SO540436	149	HEREFORD/WORCS	4	16	R

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 - 3 Published report (see text for reference)
 - 4 Other type(s) of survey (see text for details)
 - 5 Air photo interpretation
- Origin (soil parent material): M=marine alluvium R=river alluvium P=peat
O=other non-marine

Block Number	Grid Reference	OS 1:50,000 sheet number	County or District	Survey source type	Area (hectares)	Soil parent material type
WM126	SO532410	149	HEREFORD/WORCS	4	57	R
WM127	SO544376	149	HEREFORD/WORCS	4	13	R
WM128	SP084630	150	WARWICKSHIRE	1	80	R
WM129	SP085613	150	WARWICKSHIRE	1	30	R
WM130	SP120589	150	WARWICKSHIRE	1	10	O,R
WM131	SP097574	150	WARWICKSHIRE	1	19	R
WM132	SP090568	150	WARWICKSHIRE	1	16	R
WM133	SP130517	150,151	WARWICKSHIRE	1	27	R
WM134	SP080510	150	WARWICKSHIRE	1	29	R
WM135	SP070500	150	HEREFORD/WORCS	4	35	R
WM136	SP070480	150	HEREFORD/WORCS	4	44	R
WM137	SO844485	150	HEREFORD/WORCS	4	26	R,O
WM138	SO853466	150	HEREFORD/WORCS	4	13	O
WM139	SO925425	150	HEREFORD/WORCS	4	36	R
WM140	SO860400	150	HEREFORD/WORCS	4	56	R
WM141	SO861380	150	HEREFORD/WORCS	4	21	R
WM142	SO873363	150	HEREFORD/WORCS	4	13	R
WM143	SO880345	150	HEREFORD/WORCS	4	189	R
WM144	SO843280	150,162,163	GLOUCESTERSHIRE	1,4	2538	R
WM145	SO911313	150	GLOUCESTERSHIRE	1,4	13	O
WM146	SO910365	150	HEREFORD/WORCS	4	378	R
WM147	SO918397	150	HEREFORD/WORCS	4	11	R,O
WM148	SP340654	151	WARWICKSHIRE	1	103	R,O
WM149	SP284635	151	WARWICKSHIRE	1	24	R,O
WM150	SP277627	151	WARWICKSHIRE	1	21	R,O

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WM151	SP272613	151	WARWICKSHIRE	1	33	R
WM152	SP263598	151	WARWICKSHIRE	1	11	O
WM153	SP265594	151	WARWICKSHIRE	1	11	R
WM154	SP259580	151	WARWICKSHIRE	1	49	R,O
WM155	SP264390	151	WARWICKSHIRE	1	21	R,O
WM156	SO819189	162	GLOUCESTERSHIRE	1,4	55	R
WM157	SP180215	163	GLOUCESTERSHIRE	1,4	191	R,O
WM158	SP180190	163	GLOUCESTERSHIRE	1,4	207	R,O
WM159	SP190146	163	GLOUCESTERSHIRE	1,4	74	R
WM160	SP210130	163	GLOUCESTERSHIRE	1,4	48	R
WM161	SP210030	163	GLOUCESTERSHIRE	1,4	94	R
WM162	SU220994	163	GLOUCESTERSHIRE	1,4	338	R,O
WM163	SU175990	163	GLOUCESTERSHIRE	1,4	192	O,R
WM164	SU190967	163	GLOUCESTERSHIRE	1,4	48	R,O
WM165	SP149033	163	GLOUCESTERSHIRE	1,4	23	O
WM166	SP125057	163	GLOUCESTERSHIRE	1,4	23	O
WM167	SP022050	163	GLOUCESTERSHIRE	1,4	16	O
WM168	SP023035	163	GLOUCESTERSHIRE	1,4	46	O
WM169	SU010960	163	GLOUCESTERSHIRE	1,4	126	O
WM170	SU035968	163	GLOUCESTERSHIRE	1,4	38	O
WM171	SU075954	163	GLOUCESTERSHIRE	1,4	159	O
WM172	SO810175	162	GLOUCESTERSHIRE	1,4	151	R,O
WM173	SO800170	162	GLOUCESTERSHIRE	1,4	457	R,M
WM174	SO800145	162	GLOUCESTERSHIRE	1,4	77	O,M
WM175	SO780160	162	GLOUCESTERSHIRE	1,4	1350	M,R

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WM176	SO740155	162	GLOUCESTERSHIRE	1,4	287	R,M
WM177	SO759143	162	GLOUCESTERSHIRE	1,4	10	M
WM178	SO803155	162	GLOUCESTERSHIRE	1,4	14	M
WM179	SO713137	162	GLOUCESTERSHIRE	1,4	108	M
WM180	SO740120	162	GLOUCESTERSHIRE	1,4	243	M,O
WM181	SO703115	162	GLOUCESTERSHIRE	1,4	364	M,O
WM182	SO715085	162	GLOUCESTERSHIRE	1,4	136	M
WM183	SO730050	162	GLOUCESTERSHIRE	1,4	1030	M,R
WM184	SO630010	162	GLOUCESTERSHIRE	1,4	435	M,R
WM185	ST670990	162	GLOUCESTERSHIRE	1,4	1168	M,R,O
WM186	ST575970	162	GLOUCESTERSHIRE	1,4	91	M
WM187	ST563953	162	GLOUCESTERSHIRE	1,4	51	O
WM188	ST542930	162	GLOUCESTERSHIRE	1,4	49	M
WM189	SJ963566	118	STAFFORDSHIRE	5	58	R
WM190	SJ936246	127	STAFFORDSHIRE	5	39	R
WM191	SJ898338	127	STAFFORDSHIRE	5	22	R
WM192	SJ910325	127	STAFFORDSHIRE	5	44	R
WM193	SJ935293	127	STAFFORDSHIRE	5	158	R
WM194	SJ928217	127	STAFFORDSHIRE	5	19	R
WM195	SJ937165	127	STAFFORDSHIRE	5	47	R
WM196	SJ916143	127	STAFFORDSHIRE	5	28	R
WM197	SK026242	128	STAFFORDSHIRE	5	17	R
WM198	SK080222	128	STAFFORDSHIRE	5	55	R
WM199	SK093211	128	STAFFORDSHIRE	5	26	R
WM200	SK052183	128	STAFFORDSHIRE	5	25	R

