

The Cheshire Historic Landscape Characterisation



Appendices

Cheshire County Council & English Heritage

The Cheshire
Historic Landscape Characterisation

Appendices
Final Report
November 2007

Transport & Regeneration Service
Cheshire County Council
Backford Hall
Backford
Chester
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The Cheshire Historic Landscape Characterisation Appendices

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Appendix A: HLC Statistics by HLC Group

HLC Groups are arranged in alphabetical order.

	No of Records	Total Area (Ha)
HLC Group: Ancient Fieldscapes	1816	46,586
HLC Type: Ancient Field Systems	1508	38,740
HLC Sub-type: Ancient Field Systems Irregular	687	17,472
HLC Sub-type: Ancient Field Systems Regular	58	2,042
HLC Sub-type: Ancient Field Systems Semi-regular	754	18,964
HLC Sub-type: Moss Rooms	9	263
HLC Type: Anciently Enclosed Parkland	14	498
HLC Sub-type: Anciently Enclosed Parkland	14	498
HLC Type: Medieval Townfields	294	7,348
HLC Sub-type: Medieval Townfields	294	7,348
HLC Group: C20th Fieldscapes	1948	41,698
HLC Type: C20th Agricultural Improvement	1262	25,626
HLC Sub-type: C20th Agricultural Improvement	1262	25,626
HLC Type: C20th Enclosed Parkland	86	1,538
HLC Sub-type: C20th Enclosed Parkland	86	1,538
HLC Type: C20th Field Systems	599	14,534
HLC Sub-type: C20th Field Systems	599	14,534
HLC Group: Communications	182	4,889
HLC Type: C20th Communications	84	2,277
HLC Sub-type: C20th Communications	84	2,277
HLC Type: Post Medieval Communications	98	2,611
HLC Sub-type: Post Medieval Communications Active	59	2,281
HLC Sub-type: Post Medieval Communications Inactive	39	331
HLC Group: Industry	1371	12,991
HLC Type: C20th Industry	1046	11,325
HLC Sub-type: C20th Agri-Industrial	468	1,670
HLC Sub-type: C20th Industry Active	531	8,757
HLC Sub-type: C20th Industry Inactive	36	433
HLC Sub-type: C20th Salt Cavity Gas Storage	11	464
HLC Type: Post Medieval Industry	325	1,666
HLC Sub-type: Post Medieval Agri-Industrial	21	103
HLC Sub-type: Post Medieval Industry Active	141	1,053
HLC Sub-type: Post Medieval Industry Inactive	163	510

	No of Records	Total Area (Ha)
HLC Group: Military	38	829
HLC Type: C20th Military	30	803
HLC Sub-type: C20th Military Active	11	205
HLC Sub-type: C20th Military Inactive	19	598
HLC Type: Other Military	8	26
HLC Sub-type: Other Military	8	26
HLC Group: Non-improved Land	123	11,116
HLC Type: Flashes	21	253
HLC Sub-type: Flashes	21	253
HLC Type: Unimproved Land	84	1,248
HLC Sub-type: Unimproved Land	84	1,248
HLC Type: Unimproved Land Coastal	18	9,616
HLC Sub-type: Unimproved Land Coastal	18	9,616
HLC Group: Ornamental	232	6,797
HLC Type: C20th Ornamental Parkland	19	144
HLC Sub-type: C20th Ornamental Parkland	19	144
HLC Type: Deer Park	2	32
HLC Sub-type: Medieval Deer Park	1	19
HLC Sub-type: Post Medieval Deer Park	1	14
HLC Type: Post Medieval Ornamental Parkland	211	6,621
HLC Sub-type: Post Medieval Ornamental Parkland	211	6,621
HLC Group: Post Medieval Fieldscapes	2566	73,049
HLC Type: C19th Field Systems	405	8,382
HLC Sub-type: C19th Enclosure	43	524
HLC Sub-type: C19th Planned Enclosure	192	3,862
HLC Sub-type: C19th Planned Enclosure of Marsh	12	876
HLC Sub-type: Parliamentary Enclosure	158	3,120
HLC Type: Late Post Medieval Agricultural Improvement	1383	41,054
HLC Sub-type: Late Post Medieval Agricultural Improvement	1383	41,054
HLC Type: Post Medieval Enclosed Parkland	54	1,829
HLC Sub-type: Post Medieval Enclosed Parkland	54	1,829
HLC Type: Post Medieval Field Systems	727	21,784
HLC Sub-type: Post Medieval Enclosure	255	6,238
HLC Sub-type: Post Medieval Planned Enclosure	444	14,435
HLC Sub-type: Post Medieval Planned Enclosure of Marsh	28	1,111

	No of Records	Total Area (Ha)
HLC Group: Recreation	563	6,943
HLC Type: C20th Recreation	371	2,887
HLC Sub-type: C20th Recreation	371	2,887
HLC Type: Golf Course	134	3,600
HLC Sub-type: C20th Golf Course	118	3,247
HLC Sub-type: Post Medieval Golf Course	16	353
HLC Type: Post Medieval Recreation	58	456
HLC Sub-type: Post Medieval Recreation	58	456
HLC Group: Settlement	3203	31,405
HLC Type: C20th Settlement	1790	23,957
HLC Sub-type: C20th Settlement	1790	23,957
HLC Type: Post Medieval Settlement	1414	7,447
HLC Sub-type: Post Medieval Settlement	1414	7,447
HLC Group: Water Bodies	158	1,414
HLC Type: C20th Artificial Water Bodies	59	221
HLC Sub-type: C20th Artificial Water Bodies	59	221
HLC Type: Natural Water Bodies	47	1,005
HLC Sub-type: Natural Water Bodies	47	1,005
HLC Type: Other Artificial Water Bodies	52	188
HLC Sub-type: Other Artificial Water Bodies	52	188
HLC Group: Woodland	2958	8,997
HLC Type: Ancient Woodland	214	2,131
HLC Sub-type: Ancient Woodland	214	2,131
HLC Type: C20th Plantation	358	1,408
HLC Sub-type: C20th Plantation	358	1,408
HLC Type: Other Woodland	733	1,447
HLC Sub-type: C20th Other Woodland	232	546
HLC Sub-type: Post Medieval Other Woodland	501	901
HLC Type: Post Medieval Plantation	1653	4,010
HLC Sub-type: Post Medieval Plantation	1653	4,010

Appendix B: HLC Statistics by Borough and HLC Group

Note: The location of each Record is based upon its centroid (the grid reference for the central point of the polygon which represents the record in the GIS). Although a Record may coincide with multiple administrative areas, the Record will be included in the administrative area in which its centroid is located.

Boroughs and HLC Groups are arranged in alphabetical order.

	No of Records	Total Area (Ha)
CHESTER, CHESHIRE	2187	42,396
HLC Group: Ancient Fieldscapes	418	13,809
HLC Type: Ancient Field Systems	316	10,823
HLC Sub-type: Ancient Field Systems Irregular	129	4,747
HLC Sub-type: Ancient Field Systems Regular	17	853
HLC Sub-type: Ancient Field Systems Semi-regular	172	5,223
HLC Type: Anciently Enclosed Parkland	4	82
HLC Sub-type: Anciently Enclosed Parkland	4	82
HLC Type: Medieval Townfields	98	2,904
HLC Sub-type: Medieval Townfields	98	2,904
HLC Group: C20th Fieldscapes	285	8,219
HLC Type: C20th Agricultural Improvement	182	4,780
HLC Sub-type: C20th Agricultural Improvement	182	4,780
HLC Type: C20th Enclosed Parkland	12	204
HLC Sub-type: C20th Enclosed Parkland	12	204
HLC Type: C20th Field Systems	92	3,235
HLC Sub-type: C20th Field Systems	92	3,235
HLC Group: Communications	25	489
HLC Type: C20th Communications	14	241
HLC Sub-type: C20th Communications	14	241
HLC Type: Post Medieval Communications	11	247
HLC Sub-type: Post Medieval Communications Active	8	200
HLC Sub-type: Post Medieval Communications Inactive	3	48
HLC Group: Industry	110	833
HLC Type: C20th Industry	89	772
HLC Sub-type: C20th Agri-Industrial	52	207
HLC Sub-type: C20th Industry Active	33	515
HLC Sub-type: C20th Industry Inactive	4	51
HLC Type: Post Medieval Industry	21	60
HLC Sub-type: Post Medieval Agri-Industrial	1	1
HLC Sub-type: Post Medieval Industry Active	11	43
HLC Sub-type: Post Medieval Industry Inactive	9	16

	No of Records	Total Area (Ha)
HLC Group: Military	15	314
HLC Type: C20th Military	10	297
HLC Sub-type: C20th Military Active	8	179
HLC Sub-type: C20th Military Inactive	2	118
HLC Type: Other Military	5	18
HLC Sub-type: Other Military	5	18
HLC Group: Non-improved Land	7	19
HLC Type: Unimproved Land	7	19
HLC Sub-type: Unimproved Land	7	19
HLC Group: Ornamental	42	1,094
HLC Type: C20th Ornamental Parkland	3	25
HLC Sub-type: C20th Ornamental Parkland	3	25
HLC Type: Post Medieval Ornamental Parkland	39	1,069
HLC Sub-type: Post Medieval Ornamental Parkland	39	1,069
HLC Group: Post Medieval Fieldscapes	360	12,414
HLC Type: C19th Field Systems	54	1,237
HLC Sub-type: C19th Enclosure	9	111
HLC Sub-type: C19th Planned Enclosure	17	284
HLC Sub-type: C19th Planned Enclosure of Marsh	2	187
HLC Sub-type: Parliamentary Enclosure	26	656
HLC Type: Late Post Medieval Agricultural Improvement	168	6,259
HLC Sub-type: Late Post Medieval Agricultural Improvement		6,259
HLC Type: Post Medieval Enclosed Parkland	12	510
HLC Sub-type: Post Medieval Enclosed Parkland	12	510
HLC Type: Post Medieval Field Systems	126	4,407
HLC Sub-type: Post Medieval Enclosure	44	1,115
HLC Sub-type: Post Medieval Planned Enclosure	70	2,575
HLC Sub-type: Post Medieval Planned Enclosure of Marsh	12	717
HLC Group: Recreation	53	814
HLC Type: C20th Recreation	34	198
HLC Sub-type: C20th Recreation	34	198
HLC Type: Golf Course	14	542
HLC Sub-type: C20th Golf Course	14	542
HLC Type: Post Medieval Recreation	5	74
HLC Sub-type: Post Medieval Recreation	5	74

No of Records Total Area (Ha)

<i>HLC Group: Settlement</i>	372	3,141
<i>HLC Type: C20th Settlement</i>	183	2,095
HLC Sub-type: C20th Settlement	183	2,095
<i>HLC Type: Post Medieval Settlement</i>	189	1,046
HLC Sub-type: Post Medieval Settlement	189	1,046
<i>HLC Group: Water Bodies</i>	20	201
<i>HLC Type: C20th Artificial Water Bodies</i>	10	12
HLC Sub-type: C20th Artificial Water Bodies	10	12
<i>HLC Type: Natural Water Bodies</i>	6	185
HLC Sub-type: Natural Water Bodies	6	185
<i>HLC Type: Other Artificial Water Bodies</i>	4	4
HLC Sub-type: Other Artificial Water Bodies	4	4
<i>HLC Group: Woodland</i>	480	1,049
<i>HLC Type: Ancient Woodland</i>	16	128
HLC Sub-type: Ancient Woodland	16	128
<i>HLC Type: C20th Plantation</i>	68	152
HLC Sub-type: C20th Plantation	68	152
<i>HLC Type: Other Woodland</i>	100	149
HLC Sub-type: C20th Other Woodland	40	74
HLC Sub-type: Post Medieval Other Woodland	60	75
<i>HLC Type: Post Medieval Plantation</i>	296	620
HLC Sub-type: Post Medieval Plantation	296	620

	No of Records	Total Area (Ha)
CONGLETON, CHESHIRE	1793	20,145
<i>HLC Group: Ancient Fieldscapes</i>	201	4,659
<i>HLC Type: Ancient Field Systems</i>	176	4,094
HLC Sub-type: Ancient Field Systems Irregular	83	1,798
HLC Sub-type: Ancient Field Systems Regular	2	92
HLC Sub-type: Ancient Field Systems Semi-regular	88	2,096
HLC Sub-type: Moss Rooms	3	108
<i>HLC Type: Medieval Townfields</i>	25	565
HLC Sub-type: Medieval Townfields	25	565
<i>HLC Group: C20th Fieldscapes</i>	271	4,986
<i>HLC Type: C20th Agricultural Improvement</i>	168	3,143
HLC Sub-type: C20th Agricultural Improvement	168	3,143
<i>HLC Type: C20th Enclosed Parkland</i>	21	421
HLC Sub-type: C20th Enclosed Parkland	21	421
<i>HLC Type: C20th Field Systems</i>	82	1,422
HLC Sub-type: C20th Field Systems	82	1,422
<i>HLC Group: Communications</i>	12	420
<i>HLC Type: C20th Communications</i>	6	250
HLC Sub-type: C20th Communications	6	250
<i>HLC Type: Post Medieval Communications</i>	6	169
HLC Sub-type: Post Medieval Communications Active	2	137
HLC Sub-type: Post Medieval Communications Inactive	4	32
<i>HLC Group: Industry</i>	198	816
<i>HLC Type: C20th Industry</i>	148	691
HLC Sub-type: C20th Agri-Industrial	72	216
HLC Sub-type: C20th Industry Active	75	472
HLC Sub-type: C20th Industry Inactive	1	3
<i>HLC Type: Post Medieval Industry</i>	50	125
HLC Sub-type: Post Medieval Industry Active	20	55
HLC Sub-type: Post Medieval Industry Inactive	30	70

	No of Records	Total Area (Ha)
HLC Group: Military	1	5
HLC Type: C20th Military	1	5
HLC Sub-type: C20th Military Active	1	5
HLC Group: Non-improved Land	21	113
HLC Type: Flashes	10	47
HLC Sub-type: Flashes	10	47
HLC Type: Unimproved Land	10	65
HLC Sub-type: Unimproved Land	10	65
HLC Group: Ornamental	29	467
HLC Type: C20th Ornamental Parkland	3	33
HLC Sub-type: C20th Ornamental Parkland	3	33
HLC Type: Post Medieval Ornamental Parkland	26	437
HLC Sub-type: Post Medieval Ornamental Parkland	26	437
HLC Group: Post Medieval Fieldscapes	275	5,248
HLC Type: C19th Field Systems	57	699
HLC Sub-type: C19th Enclosure	4	50
HLC Sub-type: C19th Planned Enclosure	29	368
HLC Sub-type: Parliamentary Enclosure	24	281
HLC Type: Late Post Medieval Agricultural Improvement	149	3,204
HLC Sub-type: Late Post Medieval Agricultural Improvement	149	3,204
HLC Type: Post Medieval Enclosed Parkland	4	44
HLC Sub-type: Post Medieval Enclosed Parkland	4	44
HLC Type: Post Medieval Field Systems	65	1,302
HLC Sub-type: Post Medieval Enclosure	30	521
HLC Sub-type: Post Medieval Planned Enclosure	35	781
HLC Group: Recreation	53	405
HLC Type: C20th Recreation	39	195
HLC Sub-type: C20th Recreation	39	195
HLC Type: Golf Course	11	202
HLC Sub-type: C20th Golf Course	10	185
HLC Sub-type: Post Medieval Golf Course	1	17
HLC Type: Post Medieval Recreation	3	8
HLC Sub-type: Post Medieval Recreation	3	8

	No of Records	Total Area (Ha)
HLC Group: Settlement	376	2,226
HLC Type: C20th Settlement	226	1,864
HLC Sub-type: C20th Settlement	226	1,864
HLC Type: Post Medieval Settlement	150	361
HLC Sub-type: Post Medieval Settlement	150	361
HLC Group: Water Bodies	10	36
HLC Type: C20th Artificial Water Bodies	3	21
HLC Sub-type: C20th Artificial Water Bodies	3	21
HLC Type: Natural Water Bodies	3	13
HLC Sub-type: Natural Water Bodies	3	13
HLC Type: Other Artificial Water Bodies	4	3
HLC Sub-type: Other Artificial Water Bodies	4	3
HLC Group: Woodland	346	764
HLC Type: Ancient Woodland	28	229
HLC Sub-type: Ancient Woodland	28	229
HLC Type: C20th Plantation	32	46
HLC Sub-type: C20th Plantation	32	46
HLC Type: Other Woodland	133	219
HLC Sub-type: C20th Other Woodland	46	71
HLC Sub-type: Post Medieval Other Woodland	87	148
HLC Type: Post Medieval Plantation	153	269
HLC Sub-type: Post Medieval Plantation	153	269

	No of Records	Total Area (Ha)
CREWE AND NANTWICH, CHESHIRE	2958	41,097
HLC Group: Ancient Fieldscapes	458	9,307
HLC Type: Ancient Field Systems	362	7,090
HLC Sub-type: Ancient Field Systems Irregular	182	3,480
HLC Sub-type: Ancient Field Systems Regular	15	238
HLC Sub-type: Ancient Field Systems Semi-regular	165	3,372
HLC Type: Anciently Enclosed Parkland	10	416
HLC Sub-type: Anciently Enclosed Parkland	10	416
HLC Type: Medieval Townfields	86	1,801
HLC Sub-type: Medieval Townfields	86	1,801
HLC Group: C20th Fieldscapes	475	9,901
HLC Type: C20th Agricultural Improvement	308	5,975
HLC Sub-type: C20th Agricultural Improvement	308	5,975
HLC Type: C20th Enclosed Parkland	16	273
HLC Sub-type: C20th Enclosed Parkland	16	273
HLC Type: C20th Field Systems	151	3,653
HLC Sub-type: C20th Field Systems	151	3,653
HLC Group: Communications	21	422
HLC Type: C20th Communications	7	56
HLC Sub-type: C20th Communications	7	56
HLC Type: Post Medieval Communications	14	365
HLC Sub-type: Post Medieval Communications Active	12	353
HLC Sub-type: Post Medieval Communications Inactive	2	13
HLC Group: Industry	216	1,009
HLC Type: C20th Industry	177	888
HLC Sub-type: C20th Agri-Industrial	115	308
HLC Sub-type: C20th Industry Active	58	526
HLC Sub-type: C20th Industry Inactive	1	9
HLC Sub-type: C20th Salt Cavity Gas Storage	3	46
HLC Type: Post Medieval Industry	39	122
HLC Sub-type: Post Medieval Agri-Industrial	5	23
HLC Sub-type: Post Medieval Industry Active	14	65
HLC Sub-type: Post Medieval Industry Inactive	20	34

	No of Records	Total Area (Ha)
HLC Group: Military	2	5
HLC Type: C20th Military	2	5
HLC Sub-type: C20th Military Inactive	2	5
HLC Group: Non-improved Land	24	120
HLC Type: Flashes	2	5
HLC Sub-type: Flashes	2	5
HLC Type: Unimproved Land	22	115
HLC Sub-type: Unimproved Land	22	115
HLC Group: Ornamental	37	1,180
HLC Type: C20th Ornamental Parkland	6	23
HLC Sub-type: C20th Ornamental Parkland	6	23
HLC Type: Post Medieval Ornamental Parkland	31	1,156
HLC Sub-type: Post Medieval Ornamental Parkland	31	1,156
HLC Group: Post Medieval Fieldscapes	606	14,886
HLC Type: C19th Field Systems	103	1,345
HLC Sub-type: C19th Enclosure	22	158
HLC Sub-type: C19th Planned Enclosure	57	830
HLC Sub-type: Parliamentary Enclosure	24	358
HLC Type: Late Post Medieval Agricultural Improvement	374	10,302
HLC Sub-type: Late Post Medieval Agricultural Improvement	374	10,302
HLC Type: Post Medieval Enclosed Parkland	7	317
HLC Sub-type: Post Medieval Enclosed Parkland	7	317
HLC Type: Post Medieval Field Systems	122	2,922
HLC Sub-type: Post Medieval Enclosure	49	652
HLC Sub-type: Post Medieval Planned Enclosure	73	2,270
HLC Group: Recreation	69	522
HLC Type: C20th Recreation	50	220
HLC Sub-type: C20th Recreation	50	220
HLC Type: Golf Course	10	272
HLC Sub-type: C20th Golf Course	10	272
HLC Type: Post Medieval Recreation	9	31
HLC Sub-type: Post Medieval Recreation	9	31

	No of Records	Total Area (Ha)
HLC Group: Settlement	450	2,538
HLC Type: C20th Settlement	245	1,902
HLC Sub-type: C20th Settlement	245	1,902
HLC Type: Post Medieval Settlement	205	636
HLC Sub-type: Post Medieval Settlement	205	636
HLC Group: Water Bodies	34	68
HLC Type: C20th Artificial Water Bodies	15	12
HLC Sub-type: C20th Artificial Water Bodies	15	12
HLC Type: Natural Water Bodies	12	30
HLC Sub-type: Natural Water Bodies	12	30
HLC Type: Other Artificial Water Bodies	7	26
HLC Sub-type: Other Artificial Water Bodies	7	26
HLC Group: Woodland	566	1,138
HLC Type: Ancient Woodland	25	370
HLC Sub-type: Ancient Woodland	25	370
HLC Type: C20th Plantation	84	136
HLC Sub-type: C20th Plantation	84	136
HLC Type: Other Woodland	120	160
HLC Sub-type: C20th Other Woodland	42	104
HLC Sub-type: Post Medieval Other Woodland	78	56
HLC Type: Post Medieval Plantation	337	473
HLC Sub-type: Post Medieval Plantation	337	473

		No of Records	Total Area (Ha)
ELLESMERE PORT AND NESTON, CHESHIRE		483	7,889
HLC Group: Ancient Fieldscapes		25	459
		<i>HLC Type: Ancient Field Systems</i>	
	HLC Sub-type: Ancient Field Systems Regular	2	38
	HLC Sub-type: Ancient Field Systems Semi-regular	12	173
<i>HLC Type: Medieval Townfields</i>		11	249
	HLC Sub-type: Medieval Townfields	11	249
HLC Group: C20th Fieldscapes		45	626
<i>HLC Type: C20th Agricultural Improvement</i>		38	518
	HLC Sub-type: C20th Agricultural Improvement	38	518
<i>HLC Type: C20th Enclosed Parkland</i>		2	39
	HLC Sub-type: C20th Enclosed Parkland	2	39
<i>HLC Type: C20th Field Systems</i>		5	69
	HLC Sub-type: C20th Field Systems	5	69
HLC Group: Communications		6	168
<i>HLC Type: C20th Communications</i>		1	57
	HLC Sub-type: C20th Communications	1	57
<i>HLC Type: Post Medieval Communications</i>		5	111
	HLC Sub-type: Post Medieval Communications Active	2	97
	HLC Sub-type: Post Medieval Communications Inactive	3	15
HLC Group: Industry		68	1,413
<i>HLC Type: C20th Industry</i>		57	1,360
	HLC Sub-type: C20th Agri-Industrial	15	70
	HLC Sub-type: C20th Industry Active	40	1,283
	HLC Sub-type: C20th Industry Inactive	2	7
<i>HLC Type: Post Medieval Industry</i>		11	53
	HLC Sub-type: Post Medieval Agri-Industrial	2	8
	HLC Sub-type: Post Medieval Industry Active	5	36
	HLC Sub-type: Post Medieval Industry Inactive	4	9
HLC Group: Military		1	75
<i>HLC Type: C20th Military</i>		1	75
	HLC Sub-type: C20th Military Inactive	1	75

	No of Records	Total Area (Ha)
HLC Group: Non-improved Land	1	1,217
HLC Type: Unimproved Land Coastal	1	1,217
HLC Sub-type: Unimproved Land Coastal	1	1,217
HLC Group: Ornamental	9	142
HLC Type: C20th Ornamental Parkland	3	35
HLC Sub-type: C20th Ornamental Parkland	3	35
HLC Type: Post Medieval Ornamental Parkland	6	107
HLC Sub-type: Post Medieval Ornamental Parkland	6	107
HLC Group: Post Medieval Fieldscapes	66	1,445
HLC Type: C19th Field Systems	12	201
HLC Sub-type: C19th Enclosure	1	23
HLC Sub-type: C19th Planned Enclosure	10	137
HLC Sub-type: Parliamentary Enclosure	1	40
HLC Type: Late Post Medieval Agricultural Improvement	18	413
HLC Sub-type: Late Post Medieval Agricultural Improvement	18	413
HLC Type: Post Medieval Enclosed Parkland	1	3
HLC Sub-type: Post Medieval Enclosed Parkland	1	3
HLC Type: Post Medieval Field Systems	35	828
HLC Sub-type: Post Medieval Enclosure	8	191
HLC Sub-type: Post Medieval Planned Enclosure	20	409
HLC Sub-type: Post Medieval Planned Enclosure of Marsh	7	228
HLC Group: Recreation	25	209
HLC Type: C20th Recreation	21	170
HLC Sub-type: C20th Recreation	21	170
HLC Type: Golf Course	2	35
HLC Sub-type: C20th Golf Course	2	35
HLC Type: Post Medieval Recreation	2	4
HLC Sub-type: Post Medieval Recreation	2	4
HLC Group: Settlement	152	1,942
HLC Type: C20th Settlement	92	1,730
HLC Sub-type: C20th Settlement	92	1,730
HLC Type: Post Medieval Settlement	60	213
HLC Sub-type: Post Medieval Settlement	60	213

	No of Records	Total Area (Ha)
<i>HLC Group: Water Bodies</i>	2	8
<i>HLC Type: C20th Artificial Water Bodies</i>	2	8
<i>HLC Sub-type: C20th Artificial Water Bodies</i>	2	8
<i>HLC Group: Woodland</i>	83	184
<i>HLC Type: Ancient Woodland</i>	3	33
<i>HLC Sub-type: Ancient Woodland</i>	3	33
<i>HLC Type: C20th Plantation</i>	17	26
<i>HLC Sub-type: C20th Plantation</i>	17	26
<i>HLC Type: Other Woodland</i>	7	5
<i>HLC Sub-type: C20th Other Woodland</i>	2	1
<i>HLC Sub-type: Post Medieval Other Woodland</i>	5	3
<i>HLC Type: Post Medieval Plantation</i>	56	121
<i>HLC Sub-type: Post Medieval Plantation</i>	56	121

	No of Records	Total Area (Ha)
HALTON, CHESHIRE	431	10,501
HLC Group: Ancient Fieldscapes	7	172
HLC Type: Ancient Field Systems	6	155
HLC Sub-type: Ancient Field Systems Irregular	1	14
HLC Sub-type: Ancient Field Systems Semi-regular	5	141
HLC Type: Medieval Townfields	1	17
HLC Sub-type: Medieval Townfields	1	17
HLC Group: C20th Fieldscapes	38	1,030
HLC Type: C20th Agricultural Improvement	20	513
HLC Sub-type: C20th Agricultural Improvement	20	513
HLC Type: C20th Enclosed Parkland	1	7
HLC Sub-type: C20th Enclosed Parkland	1	7
HLC Type: C20th Field Systems	17	510
HLC Sub-type: C20th Field Systems	17	510
HLC Group: Communications	15	765
HLC Type: C20th Communications	7	251
HLC Sub-type: C20th Communications	7	251
HLC Type: Post Medieval Communications	8	514
HLC Sub-type: Post Medieval Communications Active	4	508
HLC Sub-type: Post Medieval Communications Inactive	4	6
HLC Group: Industry	80	1,207
HLC Type: C20th Industry	66	1,122
HLC Sub-type: C20th Agri-Industrial	7	18
HLC Sub-type: C20th Industry Active	59	1,105
HLC Type: Post Medieval Industry	14	85
HLC Sub-type: Post Medieval Agri-Industrial	1	1
HLC Sub-type: Post Medieval Industry Active	12	83
HLC Sub-type: Post Medieval Industry Inactive	1	1
HLC Group: Military	1	2
HLC Type: Other Military	1	2
HLC Sub-type: Other Military	1	2
HLC Group: Non-improved Land	4	2,925
HLC Type: Unimproved Land Coastal	4	2,925
HLC Sub-type: Unimproved Land Coastal	4	2,925

	No of Records	Total Area (Ha)
HLC Group: Ornamental	3	18
HLC Type: Post Medieval Ornamental Parkland	3	18
HLC Sub-type: Post Medieval Ornamental Parkland	3	18
HLC Group: Post Medieval Fieldsapes	27	1,056
HLC Type: C19th Field Systems	1	53
HLC Sub-type: C19th Planned Enclosure of Marsh	1	53
HLC Type: Late Post Medieval Agricultural Improvement	23	953
HLC Sub-type: Late Post Medieval Agricultural Improvement	23	953
HLC Type: Post Medieval Enclosed Parkland	1	14
HLC Sub-type: Post Medieval Enclosed Parkland	1	14
HLC Type: Post Medieval Field Systems	2	37
HLC Sub-type: Post Medieval Enclosure	1	25
HLC Sub-type: Post Medieval Planned Enclosure of Marsh	1	12
HLC Group: Recreation	50	603
HLC Type: C20th Recreation	35	468
HLC Sub-type: C20th Recreation	35	468
HLC Type: Golf Course	10	109
HLC Sub-type: C20th Golf Course	10	109
HLC Type: Post Medieval Recreation	5	26
HLC Sub-type: Post Medieval Recreation	5	26
HLC Group: Settlement	160	2,545
HLC Type: C20th Settlement	98	2,285
HLC Sub-type: C20th Settlement	98	2,285
HLC Type: Post Medieval Settlement	62	261
HLC Sub-type: Post Medieval Settlement	62	261
HLC Group: Water Bodies	5	22
HLC Type: C20th Artificial Water Bodies	5	22
HLC Sub-type: C20th Artificial Water Bodies	5	22

	No of Records	Total Area (Ha)
<i>HLC Group: Woodland</i>	<i>41</i>	<i>154</i>
<i>HLC Type: Ancient Woodland</i>	<i>5</i>	<i>51</i>
<i>HLC Sub-type: Ancient Woodland</i>	<i>5</i>	<i>51</i>
<i>HLC Type: C20th Plantation</i>	<i>4</i>	<i>11</i>
<i>HLC Sub-type: C20th Plantation</i>	<i>4</i>	<i>11</i>
<i>HLC Type: Other Woodland</i>	<i>3</i>	<i>8</i>
<i>HLC Sub-type: Post Medieval Other Woodland</i>	<i>3</i>	<i>8</i>
<i>HLC Type: Post Medieval Plantation</i>	<i>29</i>	<i>84</i>
<i>HLC Sub-type: Post Medieval Plantation</i>	<i>29</i>	<i>84</i>

	No of Records	Total Area (Ha)
MACCLESFIELD, CHESHIRE	3469	50,058
HLC Group: Ancient Fieldscapes	376	9,063
HLC Type: Ancient Field Systems	363	8,862
HLC Sub-type: Ancient Field Systems Irregular	182	4,103
HLC Sub-type: Ancient Field Systems Regular	10	221
HLC Sub-type: Ancient Field Systems Semi-regular	165	4,383
HLC Sub-type: Moss Rooms	6	155
HLC Type: Medieval Townfields	13	201
HLC Sub-type: Medieval Townfields	13	201
HLC Group: C20th Fieldscapes	426	7,504
HLC Type: C20th Agricultural Improvement	289	4,925
HLC Sub-type: C20th Agricultural Improvement	289	4,925
HLC Type: C20th Enclosed Parkland	17	363
HLC Sub-type: C20th Enclosed Parkland	17	363
HLC Type: C20th Field Systems	120	2,216
HLC Sub-type: C20th Field Systems	120	2,216
HLC Group: Communications	36	666
HLC Type: C20th Communications	19	400
HLC Sub-type: C20th Communications	19	400
HLC Type: Post Medieval Communications	17	266
HLC Sub-type: Post Medieval Communications Active	13	226
HLC Sub-type: Post Medieval Communications Inactive	4	40
HLC Group: Industry	291	1,520
HLC Type: C20th Industry	205	1,201
HLC Sub-type: C20th Agri-Industrial	125	407
HLC Sub-type: C20th Industry Active	71	706
HLC Sub-type: C20th Industry Inactive	7	66
HLC Sub-type: C20th Salt Cavity Gas Storage	2	21
HLC Type: Post Medieval Industry	86	319
HLC Sub-type: Post Medieval Agri-Industrial	5	18
HLC Sub-type: Post Medieval Industry Active	24	129
HLC Sub-type: Post Medieval Industry Inactive	57	173

	No of Records	Total Area (Ha)
HLC Group: Military	7	50
HLC Type: C20th Military	6	49
HLC Sub-type: C20th Military Inactive	6	49
HLC Type: Other Military	1	1
HLC Sub-type: Other Military	1	1
HLC Group: Non-improved Land	23	760
HLC Type: Flashes	1	3
HLC Sub-type: Flashes	1	3
HLC Type: Unimproved Land	21	757
HLC Sub-type: Unimproved Land	21	757
HLC Group: Ornamental	58	2,994
HLC Type: C20th Ornamental Parkland	2	19
HLC Sub-type: C20th Ornamental Parkland	2	19
HLC Type: Deer Park	2	32
HLC Sub-type: Medieval Deer Park	1	19
HLC Sub-type: Post Medieval Deer Park	1	14
HLC Type: Post Medieval Ornamental Parkland	54	2,942
HLC Sub-type: Post Medieval Ornamental Parkland	54	2,942
HLC Group: Post Medieval Fieldscapes	616	18,726
HLC Type: C19th Field Systems	52	1,368
HLC Sub-type: C19th Enclosure	5	158
HLC Sub-type: C19th Planned Enclosure	31	962
HLC Sub-type: Parliamentary Enclosure	16	248
HLC Type: Late Post Medieval Agricultural Improvement	339	8,572
HLC Sub-type: Late Post Medieval Agricultural Improvement	339	8,572
HLC Type: Post Medieval Enclosed Parkland	16	461
HLC Sub-type: Post Medieval Enclosed Parkland	16	461
HLC Type: Post Medieval Field Systems	209	8,324
HLC Sub-type: Post Medieval Enclosure	74	2,637
HLC Sub-type: Post Medieval Planned Enclosure	135	5,687

	No of Records	Total Area (Ha)
HLC Group: Recreation	92	1,221
HLC Type: C20th Recreation	54	309
HLC Sub-type: C20th Recreation	54	309
HLC Type: Golf Course	26	852
HLC Sub-type: C20th Golf Course	25	808
HLC Sub-type: Post Medieval Golf Course	1	44
HLC Type: Post Medieval Recreation	12	59
HLC Sub-type: Post Medieval Recreation	12	59
HLC Group: Settlement	708	4,372
HLC Type: C20th Settlement	413	3,282
HLC Sub-type: C20th Settlement	413	3,282
HLC Type: Post Medieval Settlement	295	1,090
HLC Sub-type: Post Medieval Settlement	295	1,090
HLC Group: Water Bodies	41	345
HLC Type: C20th Artificial Water Bodies	10	74
HLC Sub-type: C20th Artificial Water Bodies	10	74
HLC Type: Natural Water Bodies	9	151
HLC Sub-type: Natural Water Bodies	9	151
HLC Type: Other Artificial Water Bodies	22	121
HLC Sub-type: Other Artificial Water Bodies	22	121
HLC Group: Woodland	795	2,837
HLC Type: Ancient Woodland	74	716
HLC Sub-type: Ancient Woodland	74	716
HLC Type: C20th Plantation	76	532
HLC Sub-type: C20th Plantation	76	532
HLC Type: Other Woodland	224	474
HLC Sub-type: C20th Other Woodland	48	102
HLC Sub-type: Post Medieval Other Woodland	176	372
HLC Type: Post Medieval Plantation	421	1,115
HLC Sub-type: Post Medieval Plantation	421	1,115

	No of Records	Total Area (Ha)
VALE ROYAL, CHESHIRE	1980	36,488
HLC Group: Ancient Fieldscapes	256	7,423
HLC Type: Ancient Field Systems	215	6,284
HLC Sub-type: Ancient Field Systems Irregular	94	2,947
HLC Sub-type: Ancient Field Systems Regular	10	558
HLC Sub-type: Ancient Field Systems Semi-regular	111	2,779
HLC Type: Medieval Townfields	41	1,139
HLC Sub-type: Medieval Townfields	41	1,139
HLC Group: C20th Fieldscapes	227	5,004
HLC Type: C20th Agricultural Improvement	152	3,204
HLC Sub-type: C20th Agricultural Improvement	152	3,204
HLC Type: C20th Enclosed Parkland	13	171
HLC Sub-type: C20th Enclosed Parkland	13	171
HLC Type: C20th Field Systems	62	1,629
HLC Sub-type: C20th Field Systems	62	1,629
HLC Group: Communications	20	912
HLC Type: C20th Communications	11	417
HLC Sub-type: C20th Communications	11	417
HLC Type: Post Medieval Communications	9	495
HLC Sub-type: Post Medieval Communications Active	4	455
HLC Sub-type: Post Medieval Communications Inactive	5	39
HLC Group: Industry	163	2,337
HLC Type: C20th Industry	111	2,044
HLC Sub-type: C20th Agri-Industrial	28	245
HLC Sub-type: C20th Industry Active	66	1,252
HLC Sub-type: C20th Industry Inactive	11	149
HLC Sub-type: C20th Salt Cavity Gas Storage	6	398
HLC Type: Post Medieval Industry	52	293
HLC Sub-type: Post Medieval Agri-Industrial	1	5
HLC Sub-type: Post Medieval Industry Active	19	181
HLC Sub-type: Post Medieval Industry Inactive	32	108

	No of Records	Total Area (Ha)
HLC Group: Military	2	6
HLC Type: C20th Military	1	1
HLC Sub-type: C20th Military Inactive	1	1
HLC Type: Other Military	1	5
HLC Sub-type: Other Military	1	5
HLC Group: Non-improved Land	24	304
HLC Type: Flashes	7	196
HLC Sub-type: Flashes	7	196
HLC Type: Unimproved Land	17	108
HLC Sub-type: Unimproved Land	17	108
HLC Group: Ornamental	22	471
HLC Type: C20th Ornamental Parkland	2	9
HLC Sub-type: C20th Ornamental Parkland	2	9
HLC Type: Post Medieval Ornamental Parkland	20	462
HLC Sub-type: Post Medieval Ornamental Parkland	20	462
HLC Group: Post Medieval Fieldscapes	399	12,860
HLC Type: C19th Field Systems	106	2,735
HLC Sub-type: C19th Enclosure	2	25
HLC Sub-type: C19th Planned Enclosure	41	913
HLC Sub-type: C19th Planned Enclosure of Marsh	4	548
HLC Sub-type: Parliamentary Enclosure	59	1,249
HLC Type: Late Post Medieval Agricultural Improvement	175	7,043
HLC Sub-type: Late Post Medieval Agricultural Improvement	175	7,043
HLC Type: Post Medieval Enclosed Parkland	12	467
HLC Sub-type: Post Medieval Enclosed Parkland	12	467
HLC Type: Post Medieval Field Systems	106	2,614
HLC Sub-type: Post Medieval Enclosure	35	871
HLC Sub-type: Post Medieval Planned Enclosure	71	1,743
HLC Group: Recreation	64	1,108
HLC Type: C20th Recreation	43	471
HLC Sub-type: C20th Recreation	43	471
HLC Type: Golf Course	14	604
HLC Sub-type: C20th Golf Course	14	604
HLC Type: Post Medieval Recreation	7	32
HLC Sub-type: Post Medieval Recreation	7	32

	No of Records	Total Area (Ha)
HLC Group: Settlement	328	3,236
HLC Type: C20th Settlement	175	2,475
HLC Sub-type: C20th Settlement	175	2,475
HLC Type: Post Medieval Settlement	154	761
HLC Sub-type: Post Medieval Settlement	154	761
HLC Group: Water Bodies	36	486
HLC Type: C20th Artificial Water Bodies	11	60
HLC Sub-type: C20th Artificial Water Bodies	11	60
HLC Type: Natural Water Bodies	13	407
HLC Sub-type: Natural Water Bodies	13	407
HLC Type: Other Artificial Water Bodies	12	19
HLC Sub-type: Other Artificial Water Bodies	12	19
HLC Group: Woodland	439	2,342
HLC Type: Ancient Woodland	53	519
HLC Sub-type: Ancient Woodland	53	519
HLC Type: C20th Plantation	62	455
HLC Sub-type: C20th Plantation	62	455
HLC Type: Other Woodland	107	298
HLC Sub-type: C20th Other Woodland	39	126
HLC Sub-type: Post Medieval Other Woodland	68	172
HLC Type: Post Medieval Plantation	217	1,069
HLC Sub-type: Post Medieval Plantation	217	1,069

	No of Records	Total Area (Ha)
WARRINGTON, CHESHIRE	1268	17,658
HLC Group: Ancient Fieldscapes	42	855
HLC Type: Ancient Field Systems	36	779
HLC Sub-type: Ancient Field Systems Irregular	11	194
HLC Sub-type: Ancient Field Systems Regular	1	11
HLC Sub-type: Ancient Field Systems Semi-regular	24	573
HLC Type: Medieval Townfields	6	76
HLC Sub-type: Medieval Townfields	6	76
HLC Group: C20th Fieldscapes	148	3,812
HLC Type: C20th Agricultural Improvement	87	2,221
HLC Sub-type: C20th Agricultural Improvement	87	2,221
HLC Type: C20th Enclosed Parkland	3	36
HLC Sub-type: C20th Enclosed Parkland	3	36
HLC Type: C20th Field Systems	58	1,554
HLC Sub-type: C20th Field Systems	58	1,554
HLC Group: Communications	35	688
HLC Type: C20th Communications	16	390
HLC Sub-type: C20th Communications	16	390
HLC Type: Post Medieval Communications	19	298
HLC Sub-type: Post Medieval Communications Active	9	201
HLC Sub-type: Post Medieval Communications Inactive	10	97
HLC Group: Industry	177	2,545
HLC Type: C20th Industry	141	2,316
HLC Sub-type: C20th Agri-Industrial	33	108
HLC Sub-type: C20th Industry Active	101	2,087
HLC Sub-type: C20th Industry Inactive	7	121
HLC Type: Post Medieval Industry	36	229
HLC Sub-type: Post Medieval Agri-Industrial	3	7
HLC Sub-type: Post Medieval Industry Active	26	187
HLC Sub-type: Post Medieval Industry Inactive	7	36

	No of Records	Total Area (Ha)
HLC Group: Military	9	371
HLC Type: C20th Military	9	371
HLC Sub-type: C20th Military Active	2	22
HLC Sub-type: C20th Military Inactive	7	349
HLC Group: Non-improved Land	7	196
HLC Type: Flashes	1	2
HLC Sub-type: Flashes	1	2
HLC Type: Unimproved Land	5	106
HLC Sub-type: Unimproved Land	5	106
HLC Type: Unimproved Land Coastal	1	88
HLC Sub-type: Unimproved Land Coastal	1	88
HLC Group: Ornamental	11	127
HLC Type: Post Medieval Ornamental Parkland	11	127
HLC Sub-type: Post Medieval Ornamental Parkland	11	127
HLC Group: Post Medieval Fieldsapes	108	3,501
HLC Type: C19th Field Systems	9	493
HLC Sub-type: C19th Planned Enclosure	6	347
HLC Sub-type: Parliamentary Enclosure	3	146
HLC Type: Late Post Medieval Agricultural Improvement	86	2,759
HLC Sub-type: Late Post Medieval Agricultural Improvement	86	2,759
HLC Type: Post Medieval Enclosed Parkland	1	12
HLC Sub-type: Post Medieval Enclosed Parkland	1	12
HLC Type: Post Medieval Field Systems	12	238
HLC Sub-type: Post Medieval Enclosure	7	148
HLC Sub-type: Post Medieval Planned Enclosure	5	89
HLC Group: Recreation	86	793
HLC Type: C20th Recreation	64	464
HLC Sub-type: C20th Recreation	64	464
HLC Type: Golf Course	17	311
HLC Sub-type: C20th Golf Course	16	301
HLC Sub-type: Post Medieval Golf Course	1	10
HLC Type: Post Medieval Recreation	5	17
HLC Sub-type: Post Medieval Recreation	5	17

	No of Records	Total Area (Ha)
HLC Group: Settlement	507	4,238
HLC Type: C20th Settlement	291	3,644
HLC Sub-type: C20th Settlement	291	3,644
HLC Type: Post Medieval Settlement	216	594
HLC Sub-type: Post Medieval Settlement	216	594
HLC Group: Water Bodies	8	244
HLC Type: C20th Artificial Water Bodies	3	12
HLC Sub-type: C20th Artificial Water Bodies	3	12
HLC Type: Natural Water Bodies	3	217
HLC Sub-type: Natural Water Bodies	3	217
HLC Type: Other Artificial Water Bodies	2	15
HLC Sub-type: Other Artificial Water Bodies	2	15
HLC Group: Woodland	130	288
HLC Type: Ancient Woodland	5	29
HLC Sub-type: Ancient Woodland	5	29
HLC Type: C20th Plantation	12	45
HLC Sub-type: C20th Plantation	12	45
HLC Type: Other Woodland	23	48
HLC Sub-type: C20th Other Woodland	9	28
HLC Sub-type: Post Medieval Other Woodland	14	21
HLC Type: Post Medieval Plantation	90	165
HLC Sub-type: Post Medieval Plantation	90	165

	No of Records	Total Area (Ha)
WIRRAL, MERSEYSIDE	587	20,482
HLC Group: Ancient Fieldscapes	30	840
HLC Type: Ancient Field Systems	19	444
HLC Sub-type: Ancient Field Systems Irregular	5	186
HLC Sub-type: Ancient Field Systems Regular	1	31
HLC Sub-type: Ancient Field Systems Semi-regular	13	226
HLC Type: Medieval Townfields	11	396
HLC Sub-type: Medieval Townfields	11	396
HLC Group: C20th Fieldscapes	32	615
HLC Type: C20th Agricultural Improvement	19	347
HLC Sub-type: C20th Agricultural Improvement	19	347
HLC Type: C20th Enclosed Parkland	1	23
HLC Sub-type: C20th Enclosed Parkland	1	23
HLC Type: C20th Field Systems	12	245
HLC Sub-type: C20th Field Systems	12	245
HLC Group: Communications	12	360
HLC Type: C20th Communications	3	215
HLC Sub-type: C20th Communications	3	215
HLC Type: Post Medieval Communications	9	145
HLC Sub-type: Post Medieval Communications Active	5	103
HLC Sub-type: Post Medieval Communications Inactive	4	41
HLC Group: Industry	68	1,310
HLC Type: C20th Industry	52	930
HLC Sub-type: C20th Agri-Industrial	21	91
HLC Sub-type: C20th Industry Active	28	812
HLC Sub-type: C20th Industry Inactive	3	27
HLC Type: Post Medieval Industry	16	380
HLC Sub-type: Post Medieval Agri-Industrial	3	40
HLC Sub-type: Post Medieval Industry Active	10	275
HLC Sub-type: Post Medieval Industry Inactive	3	64

	No of Records	Total Area (Ha)
HLC Group: Non-improved Land	12	5,465
HLC Type: Unimproved Land	2	79
HLC Sub-type: Unimproved Land	2	79
HLC Type: Unimproved Land Coastal	10	5,386
HLC Sub-type: Unimproved Land Coastal	10	5,386
HLC Group: Ornamental	21	303
HLC Type: Post Medieval Ornamental Parkland	21	303
HLC Sub-type: Post Medieval Ornamental Parkland	21	303
HLC Group: Post Medieval Fieldscapes	111	2,913
HLC Type: C19th Field Systems	11	251
HLC Sub-type: C19th Planned Enclosure	1	21
HLC Sub-type: C19th Planned Enclosure of Marsh	5	88
HLC Sub-type: Parliamentary Enclosure	5	142
HLC Type: Late Post Medieval Agricultural Improvement	50	1,539
HLC Sub-type: Late Post Medieval Agricultural Improvement	50	1,539
HLC Type: Post Medieval Field Systems	50	1,123
HLC Sub-type: Post Medieval Enclosure	7	78
HLC Sub-type: Post Medieval Planned Enclosure	35	891
HLC Sub-type: Post Medieval Planned Enclosure of Marsh	8	154
HLC Group: Recreation	71	1,268
HLC Type: C20th Recreation	31	390
HLC Sub-type: C20th Recreation	31	390
HLC Type: Golf Course	30	674
HLC Sub-type: C20th Golf Course	17	392
HLC Sub-type: Post Medieval Golf Course	13	282
HLC Type: Post Medieval Recreation	10	205
HLC Sub-type: Post Medieval Recreation	10	205
HLC Group: Settlement	150	7,166
HLC Type: C20th Settlement	66	4,641
HLC Sub-type: C20th Settlement	66	4,641
HLC Type: Post Medieval Settlement	84	2,525
HLC Sub-type: Post Medieval Settlement	84	2,525

	No of Records	Total Area (Ha)
<i>HLC Group: Water Bodies</i>	2	3
<i>HLC Type: Natural Water Bodies</i>	1	2
HLC Sub-type: Natural Water Bodies	1	2
<i>HLC Type: Other Artificial Water Bodies</i>	1	1
HLC Sub-type: Other Artificial Water Bodies	1	1
<i>HLC Group: Woodland</i>	78	240
<i>HLC Type: Ancient Woodland</i>	5	56
HLC Sub-type: Ancient Woodland	5	56
<i>HLC Type: C20th Plantation</i>	3	5
HLC Sub-type: C20th Plantation	3	5
<i>HLC Type: Other Woodland</i>	16	86
HLC Sub-type: C20th Other Woodland	6	40
HLC Sub-type: Post Medieval Other Woodland	10	46
<i>HLC Type: Post Medieval Plantation</i>	54	93
HLC Sub-type: Post Medieval Plantation	54	93

The Cheshire Historic Landscape Characterisation



Appendix C: Methodology

Rob Edwards

Cheshire County Council & English Heritage

The Cheshire
Historic Landscape Characterisation

Methodology
2007

Transport & Regeneration Service
Cheshire County Council
Backford Hall
Backford
Chester
CH1 6PZ

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Summary & Acknowledgements

This document presents the methodology for The Cheshire Historic Landscape Characterisation and replaces the outline methodology previously presented in the Project Design¹ and Cheshire's HLC Project Methodology². The aim of this project is to understand the human activities that formed Cheshire's landscape as it is seen today, and to promote the understanding and management of this resource in partnership with other organisations and the Cheshire community. The project forms part of the national programme of Historic Landscape Characterisation being developed by English Heritage.

This methodology has drawn upon the methods and ideas from a wide range of previous and in progress Historic Landscape Characterisation (HLC) projects. Particular mention must be made to the Lancashire HLC³, *Miles Johnson* of the Cumbria HLC, *Sam Turner* of the Devon HLC and *Andy Wigley* of the Shropshire HLC.

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¹ Cheshire CC 2002

² Cheshire CC 2004

³ Ede & Darlington 2002

The Project

The landscape is an important factor in the sense of identity and quality of life for its inhabitants, and is a vital part of their heritage; therefore priority should be afforded to its protection and enhancement.

The aim of this project is to understand the human activities that formed Cheshire's landscape as it is seen today, and to promote the understanding and management of this resource in partnership with other organisations and the Cheshire community. The project forms part of the national programme of Historic Landscape Characterisation being developed by English Heritage.

It is envisaged that the Historic Landscape Characterisation, when integrated with other assessments, will enable us to come to an understanding of the diversity of Cheshire's landscape. This will allow guidelines to be developed for the conservation and management of valued areas, such as Areas of Special County Value (Cheshire County Council 1990, as well as guidelines for the creation of new landscapes and development.

The project area spans nine Countryside Character Areas (Figure 1)⁴. They are based on a variety of characteristics such as geology, physiography, soils, land use, historical associations and urban and industrial uses. Therefore it was considered important that the project methodology was flexible, enabling it to easily record and describe the full range of landscapes likely to be encountered.

The project area comprises the county of Cheshire, and the unitary authorities of Halton, Warrington and Wirral Metropolitan Borough. Although this project is concerned with Cheshire and areas outside the political boundaries of the modern county, it has been agreed that it should be referred to as the 'Cheshire HLC'.

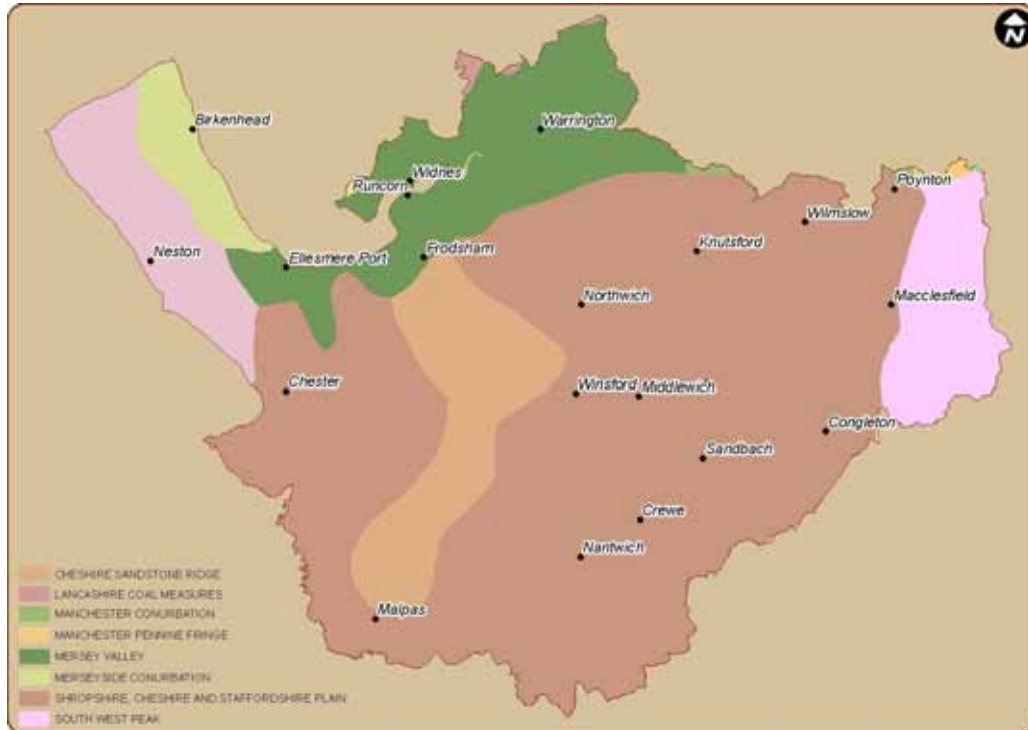


Figure 1: Countryside Character Areas

⁴ Countryside Commission 1998

Pilot Project

The initial methodology and source materials were tested as part of a four-week pilot project during June 2002. Three characteristically different areas of the county (South-west Peak, Mersey Valley and Shropshire, Cheshire and Staffordshire Plain Countryside Character Areas) were selected and the methodology tested against a small group of parishes in that Countryside Character Area⁵. At the end of the pilot project a fundamental review of the methodology was undertaken and changes made as required.

⁵ Countryside Commission 1998

Sources

A number of primary and secondary sources have been used. The primary sources are required to have consistent coverage and to be easily accessible in digital format, for use via GIS. The secondary sources may not have complete coverage or be in a digital format; however these sources are considered useful for informing the characterisation process and as an aid in answering specific questions.

Primary Sources

OS MasterMap is used as the primary mapping base. This was chosen over other OS digital formats because of its added functionality and, as the most recent OS mapping set, it is the most up to date. The OS 1st edition is an already established source for use in Historic Landscape Characterisation and easily allows comparison with modern mapping. The OS 3rd edition maps are used to define nineteenth-century settlement cores and as a guide to late nineteenth/early twentieth-century land use. The Cities Revealed 1999/2000 Aerial Photographic survey which covers Cheshire, Halton and Warrington and Cities Revealed 1997 survey which covers the Wirral, have been used to illuminate the OS mapping and to scan for the relic features of previous land use. These surveys are also held digitally.

Secondary Sources

A number of sources have been used to inform the characterisation process (see Table 1). These sources are used when they could provide specific information or answer specific questions.

Data	Source
Enclosure Maps/Awards	Maps and text
Tithe Maps/Awards	Maps and text
Register of Parks and Gardens ⁶	Maps, text and GIS
Historic Cheshire Landscapes ⁷	Maps, text
English Heritage List of Scheduled Monuments	Maps, text and GIS
DCMS List of Buildings of Special Architectural or Historic Interest	Maps, text, SMR database and GIS
Cheshire Historic Towns Survey ⁸	Maps, text and GIS
Sites and Monuments Data	SMR database and GIS
North West Wetlands Survey ⁹	Text
Cheshire Heathland and Peatland Inventory ¹⁰	GIS
Ancient Woodland Inventory ¹¹	Maps, text and GIS
Soil Association Map	GIS
Contour Mapping	GIS
Geological Maps	GIS
English Place names Society; The Place names of Cheshire ¹²	Text
Glacial Meres	GIS
Cheshire's Landscape Character Assessment ¹³	Maps, text
Mineral Sites/consultations	GIS
Historic Aerial Photographs	N/A
The History of the County Palatine and City of Chester ¹⁴	Text

Table 1: Secondary Sources

⁶ English Heritage 2001

⁷ MMU Undated

⁸ Cheshire County Council 2002a-q

⁹ Leah *et al* 1997; Cowell RW & Innes JB 1994

¹⁰ Penny Anderson Associates 1994

¹¹ English Nature 2000

¹² Dodgson 1970a-c, 1971, 1972, 1981a-b

¹³ Cheshire County Council 1994

¹⁴ Ormerod 1882

Data Collection & Processing

Cheshire's Historic Landscape Characterisation has been undertaken using ESRI ArcView 9.1 GIS, utilising OS MasterMap as the primary map base. Attributes are input into an MS Access 2002 database, linked to OS MasterMap via an attribute field.

The project used a predetermined set of descriptive types. This enabled the use of a related data structure that allowed the character classification to be developed from the recorded attributes. The data structure was also intended to be flexible, allowing the further input of data from any possible future studies.

Data Capture

OS MasterMap holds information as 'features', i.e. each individual element, such as an enclosure or building, is an individual polygon, line or point to which attributes can be attached. OS MasterMap holds information about each feature through a unique identifier or 'Toid'. It has the distinct advantage over previous OS digital maps in that a feature from the OS MasterMap can be selected and have data attached to it, without the need to digitise. There was no minimum polygon size, as this is predetermined by OS MasterMap.

Within the GIS, a conjoining group (or a group in close proximity) of MasterMap polygons are selected. This polygon group, or HLC polygon, all share common attributes i.e. descriptive type, boundary morphology, previous character type etc. A new record for the HLC polygon is created in the Access 2002 database and the attributes recorded. This generates a unique record number (UID) which is attached to all the MasterMap polygons within the HLC polygon in the GIS. These HLC polygons form the equivalent of individual polygons in projects utilising digitisation. The attribute data within the database can then be linked to OS MasterMap, via the GIS, using the UID.

This method removes the need for the attributes assigned to each MasterMap polygon, making for a more efficient data structure.

The attributes for each HLC polygon are input through a number of group specific forms, accessed through a central switchboard in the MS Access 2002 database. The values for each attribute are held as look up tables (LUT) and are accessed as dropdown menus within the form, or as check boxes recording presence or absence. The values selected are then written to the main data table of the database.

An advantage of this system is that digitisation of the HLC polygons was no longer necessary and any subsequent editing easier.

Data Processing

The project used the polygon information from MasterMap extracted into a separate shapefile. Due to the large size of these files an independent map is created for each Borough. All attached MasterMap information in the shapefiles attribute table has been removed, except Calc Area (polygon size) and Toid (polygon unique Identifier) and an attribute field (UID) created to record the number of the equivalent record in the project database.

At the end of data collection each borough map is sewn together and all the polygons with the same UID merged to create one polygon, essentially the HLC polygon, in a new shape file (Figure 2). In addition values for the average MasterMap polygon size and number of MasterMap polygons are created as values in the shapefiles attribute table. A GIS toolkit (XTools Pro) is then used to create national grid references for each UID and to calculate the total polygon area writing the values to the attribute table. The attribute table is then imported into the project database as a table called tbl_Calc Area.

The grid references held within the table tbl_Calc Area can be displayed as points in the GIS. This is used to create a point shapefile which is used to determine values for tbl_District, a record of in which borough the centre point of a record lies.



Figure 2: Individual MasterMap polygons (left) and the final HLC polygon (right)

Descriptive Groups

Nine descriptive groups have been defined:

- Settlement
- Woodland
- Unimproved Ground
- Enclosed Fieldscapes
- Military
- Communications
- Recreational and Ornamental
- Industrial
- Water Bodies.

The descriptive groups are further subdivided into 55 descriptive types. The types are intended to be descriptive, rather than interpretative and are the primary tool of data collection.

Settlement

Small enclosures, outbuildings and orchards associated with the settlement will be allocated to the same type. Historic cores, where defined by the 1st edition OS map, will be characterised as a separate HLC Polygon. This can be further informed by Cheshire's Historic Survey. Settlement areas will be characterised as either:

Type	Description
<i>Dispersed</i>	Isolated farms and small groups of housing. Only used in recording earlier landscapes where the settlement has been subsumed into a larger settlement.
<i>Nucleated</i>	Villages and small towns.
<i>Urban</i>	Used for the larger towns and cities, which display substantial growth.

Table 2: Settlement Descriptive Types

Note: All terms relate to Cheshire settlement, rather than reflecting national typologies, such as the work of Roberts & Wrathmell¹⁵.

A Note on the Wirral

The dense urban centres of the Wirral will have their extent mapped in same manner as other towns in the project area, although no previous landscape descriptions will be made for the modern expansion. It is intended that this data will be replaced by data from detailed urban characterisation programme being undertaken for the whole of Merseyside to create an integrated historic environment resource.

Woodland

Cheshire contains a wide variety of woodland, from medieval woodlands to coniferous plantations. A number of specific attributes are recorded as a guide to interpretation within and around the woodland. Internal boundaries (where visible) and other features may indicate formation processes or management. The external shape may reflect clearance or foundation. This group is divided into nine types defined by size and shape in the same manner as Enclosed Fieldscapes.

¹⁵ Roberts & Wrathmell 2000

Interpretation

Six interpretations are available for selection:

Interpretation	Description
<i>Ancient</i>	As defined by the Ancient Woodland Inventory (woodland where there has been continuous woodland cover since at least 1600 AD).
<i>Plantation Deciduous</i>	Deliberate plantings of deciduous trees.
<i>Plantation Coniferous</i>	Deliberate plantings of coniferous trees.
<i>Plantation Mixed</i>	Deliberate mixed plantings of deciduous and coniferous trees.
<i>Regenerated</i>	Woodland formed by the neglect or under use of land.
<i>Unknown</i>	Formation process not evident, but the woodland was extant on the OS 1st Edition.

Table 3: Woodland Interpretations

Unimproved Ground

This descriptive group covers areas of unenclosed land such as tidal mud flats, mosses and the uplands of the peak fringe. Fragments of heath and common are still extant in Cheshire, but they have largely succumbed to agriculture and will reflect an Enclosed Fieldscape descriptive type. This group is divided into seven types:

Type	Description
<i>Coastal Outcrops</i>	Rocky sandstone outcroppings which often occur along the Wirral coast.
<i>Estuarine or Inland Marsh</i>	Low lying wetlands and areas of salt marsh located in the Mersey and Dee estuaries.
<i>Flashes</i>	Areas of ground subsidence due to industrial salt extraction, which are often flooded. These are large and distinct features in parts of the Cheshire landscape.
<i>Heathland/Moorland</i>	Fragments of heath survive in Cheshire, as defined by the Cheshire Heathland Inventory. However many of these sites will be too small for inclusion or have now been taken into agricultural use.
<i>Sand Dunes</i>	Areas of sand dunes.
<i>Tidal mud & sandbanks</i>	Defined by the OS map, this type reflects the large areas of tidal mudflat present in the Dee and Mersey estuaries.
<i>Mossland</i>	Areas of peat and bog developing in depressions in the landscape are a characteristic of Cheshire. The mosses are an important historical resource containing buried landscapes, paleo-environmental data and, at Lindow Moss, a number of late Iron-Age, early Romano-British bog bodies. These sites are also an important industrial resource and may be classified accordingly.

Table 4: Unimproved Ground Descriptive Types

Boundary Morphology

Boundary morphology is recorded for the external boundaries of the feature group, as few or no internal boundaries are expected.

Interpretation

No interpretation is made for this group as the descriptive types are self explanatory. However a number of interpretations are available for previous landscapes for use where applicable. These being: common/waste, land used and held communally, or under utilised land and none, where this inference cannot be made.

Enclosed Fieldscapes

Enclosed fields represent a challenge for the characterisation process, as a group of fields may still utilise earlier field boundaries. The initial descriptive type depends upon the size and shape of the fields. The field sizes is defined in hectares from the OS Master Map. In addition a number of specific attributes are recorded as a guide to interpretation and the formation process. The degree of field boundary loss, gain and change from the OS 1st edition maps will also be recorded.

This character group is divided into nine descriptive types defined by field size and shape. The field sizes are defined in hectares from the OS Master Map. They are, *small*: 1-3ha, *medium*: 3-16ha and *large*: 16ha+. Field shape is divided into *Regular*, *Semi-regular* and *Irregular*. The definition of the type is derived from the majority of the fields within a feature group (Figure 3).



Figure 3: Irregular, Semi-Regular and Regular Field Systems

Boundary Change

A qualitative assessment is made of the amount of field boundary loss/gain since the creation of the OS 1st edition map. The values are *none*, *low*, *medium*, *high* and *N/A*

Interpretation

Eleven interpretations are available for selection. The interpretations indicate the probable formation of the selected fieldscape. Some of the interpretations are more general than others, acting as umbrellas for the more specific interpretations which require additional evidence.

Interpretation	Description
<i>Assarts</i>	Woodland clearance to create land for agriculture.
<i>Enclosed Open Fields</i>	Enclosure of medieval open fields, often defined by distinctive aratral boundaries and ridge and furrow earthworks.
<i>Enclosed Meadow</i>	Former common meadow now enclosed, where additional evidence is available to suggest this function.
<i>Enclosed Parkland</i>	Areas of former parkland now under cultivation.
<i>Enclosed Waste or Common</i>	The piecemeal enclosure of commons and manorial waste
<i>Parliamentary Enclosure</i>	Enclosure defined by an Act of Parliament, usually very regular fields with ruler straight boundaries.
<i>Piecemeal Enclosure</i>	Piecemeal enclosure, where the previous land use is unknown.
<i>Planned Private Enclosure</i>	The enclosure of commons and manorial waste (by the informal or formal agreement of land owners) and with ruler straight boundaries indicative of surveying.
<i>Moss Rooms</i>	Long narrow enclosures extending into mosses and bogs formed by peat cutting and rights of turbary.
<i>Reclaimed Industrial Land</i>	Former industrial land reclaimed for agriculture.
<i>Re-organised Fields</i>	Where a new field system has been created or the existing field system re-modelled.

Table 5: Enclosed Fieldscapes Interpretations

Military

This includes all military and defensive installations. This group is intended to define large military or defensive complexes, rather than individual sites. Such site specific data is already available in the SMR/HER and through other studies. Therefore some sites, such as W.W.II anti aircraft batteries may be too small for inclusion. There are four military descriptive types.

Type	Description
<i>Fort</i>	Generally pre-medieval fortifications.
<i>Castle</i>	Medieval fortifications.
<i>Barracks/Depot</i>	Barracks, supply depots etc.
<i>Airfield</i>	Military airfields.

Table 6: Military Descriptive Types

Disused military complexes

A check box will record the activity status of the site. Checking the box will record the site as inactive, the default value (unchecked) is active. Inactive is used where the military use still defines the lands character, rather than being reused for a new function.

Communications

This group covers the major transport infrastructure of the project area and is divided into four descriptive types:

Type	Description
<i>Roads</i>	Only large modern road systems such as dual carriageways and motorways are included, as smaller roads are difficult to define at small scales.
<i>Airfields</i>	Civil airports and light airfields.
<i>Canals</i>	Canals, the Manchester Ship Canal and canalised rivers (navigations).
<i>Railways</i>	Including tramways & plate ways where of sufficient importance.

Table 7: Communications Descriptive Types

Disused communications

A check box will record the activity status of the route/site. Checking the box will record the site as inactive, the default value (unchecked) is active. Inactive is used where the communication route/site is still extant in the landscape.

Recreation/Ornamental

This includes any type of planned or designed ornamental landscape or recreational land use such as parks, playing fields and large retail and entertainment complexes. It is probable that many of these sites will be too small to be included as part of the characterisation process. There are ten recreational/ornamental descriptive types:

Type	Description
<i>Camping/Caravan Site</i>	Site with or without amenities for camping and caravanning.
<i>Designed Landscape</i>	Large designed parkland associated with status dwellings.
<i>Deer Parks</i>	A large enclosure reserved for keeping and hunting deer and other game.
<i>Golf Course</i>	~
<i>Marina</i>	A dock, harbour, or basin in which yachts and other small craft such as canal boats are moored.
<i>Public Parks</i>	A large public garden or area of land used for recreation.
<i>Race Course</i>	For equine sports.
<i>Race Track</i>	For motor sports.
<i>Sports Ground</i>	Not school playing fields.
<i>Zoos</i>	~

Table 8: Recreation/Ornamental Descriptive Types

Industrial

Though at first Cheshire can be seen to be a county dominated by agriculture, its industrial heritage is evident from the early mills dotted over the east of the county to the extensive modern oil refinery at Stanlow. This group is intended to define large areas of industrial activity, rather than identify individual sites. Such site specific data is already available in the SMR/HER and through other studies. There are sixteen industrial descriptive types (Table 9).

Disused industrial complexes

A check box will record the activity status of the site. Checking the box will record the site as inactive, the default value (unchecked) is active. Inactive is used where significant industrial features remain.

Type	Description
<i>Agri-industrial</i>	Large farm complexes etc.
<i>Chemical/Petro-chemical</i>	Oil refineries and chemical works.
<i>Dredging Disposal Sites</i>	Areas set aside for the disposal of silts dredged from the areas major canals and navigations.
<i>Land Fill</i>	Land fill site.
<i>Lime Works</i>	Complexes established for the production of lime.
<i>Manufacturing</i>	A generic term for manufacturing complexes.
<i>Mine</i>	Large mining complexes which may also undertake ore processing.
<i>Mills</i>	Water mills, flint mills and textile mills.
<i>Nursery</i>	A place where young plants or trees are grown for later use or sale. Includes garden centres.
<i>Port/Dock Facility</i>	Ports and docks, including those on canals.
<i>Research Facility</i>	Large scientific research establishments.
<i>Salt Extraction</i>	A facility for the extraction of salt/rock salt. Salt extraction is a characteristic Cheshire industry.
<i>Salt Cavity Gas Storage</i>	These are facilities which store natural gas in cavities in the underlying halite (rock salt).
<i>Quarry – Peat</i>	Quarry for the extraction of peat. These are a characteristic of Cheshire and are distinctly different in character from other quarries.
<i>Quarry – Mineral</i>	Quarry for the extraction of stone or aggregates.
<i>Water Treatment</i>	Water pumping stations, sewage works etc.

Table 9: Industrial Descriptive Types

Water bodies

This group covers all artificial and natural water bodies in the county. Many of the smaller water bodies and stream courses will not be characterised because of their size. This group is subdivided into three descriptive types.

Type	Description
Open water- Artificial:	Such as reservoirs.
Open water- Natural:	Large ponds and lakes
Rivers	~

Table 10: Water bodies Descriptive Types

Generic Attributes

What follows is a discussion of the generic attributes used in some or all of the descriptive groups, followed by each group, with definitions of their specific descriptive types and interpretations. These attributes will be used for the descriptive groups where applicable.

Boundary Morphology

A number of character groups record the primary and secondary external and/or internal boundary morphology. In each case the values from the LUT table are the same. The primary morphology is the type most prevalent, secondary the next most prevalent.



Field systems with straight boundaries



Field systems with curving boundaries



A wood with sinuous boundaries



Field systems with aratral boundaries

Figure 4: Boundary Morphologies

Boundaries are described as being either sinuous, curving, straight or aratral (a reversed S or C shape). Sinuous boundaries are often associated with piecemeal enclosure, water courses and woodland edges. Ruler straight surveyed boundaries are often associated with land enclosed under acts of parliament. Aratral boundaries are indicative of medieval ploughing techniques (Figure 4).

Boundary Change

This attribute records the degree of change in the HLC polygon from the OS 1st edition maps. The values for all groups except Fieldsapes are: *Shrunk*, *Expanded*, *None* and *N/A*. For the Settlement descriptive group, this refers to the settlement as a whole, rather than to the individual HLC polygon.

Date

This field defines the probable period in which the current landscape was created or acts as *Terminus Post Quem*. Due to the nature of the data assessment these are intended as a guide only.

Type	Description
<i>Prehistoric</i>	Pre Roman Conquest (AD42).
<i>Roman</i>	Roman Conquest to around the seventh-century.
<i>Medieval</i>	From around the seventh-century to the sixteenth-century
<i>Early Post Medieval</i>	From the sixteenth-century to the end of the seventeenth-century.
<i>Late Post Medieval</i>	From the eighteenth-century to the start of the twentieth-century.
<i>Modern</i>	From the start of the twentieth-century to the present.

Table 11: Date Ranges

Confidence

This field indicates a measure of confidence in the date and interpretation (where used) assigned to the HLC polygon. It ranges from 'Suggested' (25% certainty), to 'Certain' (100% certainty). The values are: *certain*, *probable*, *possible* and *suggested*.

Landscape Features

A number of check boxes which allow the presence or absence of features with the landscape to be recorded. These are Marl Pits, Dry Stone Walls and Ridge and Furrow. The default value is no (unchecked).

Source

These check box fields record the sources from which any interpretation was made. The default value is no (unchecked). The sources listed are:

- OS Modern Mapping
- OS 1st Edition
- OS 3rd Edition
- Enclosure Award
- Aerial Photograph
- Other

Notes

A free text area for additional sources, description, comments or interpretation.

A note on interpretations

No interpretation is made for a descriptive group where the descriptive type is self explanatory. However some of these groups allow for interpretational statements for previous landscapes. These interpretations relate to inferences made about former land use and are discussed under each descriptive group.

Previous Landscapes

Where evident, a description is made of any previous landscapes. For previous landscapes, a descriptive group, type, primary internal boundary morphology (for fieldscapes), interpretation (where applicable) and date will be assigned, along with a record of confidence. Up to three previous descriptive types can be assigned to each HLC polygon, otherwise they are left blank.

Synthesis

The following classifications of 'Character' have been developed to create a flexible system that allows different levels of detail to be displayed, from simpler county scale maps to more detailed borough level mapping.

HLC Group

This classification is the coarsest used in the HLC and is intended to be used to create a simple and distinctive county scale map. The HLC Groups are created through the amalgamation of the HLC Types and characterise the current landscape only.

HLC Type

This classification is the mainstay of the HLC and is intended for use from the Borough to County scale. Each polygon's HLC Type is defined by the recorded attributes in the MS Access database (see below).

HLC Subtype

This is the finest classification in the HLC and is intended for use from Parish to Borough scale. The Subtypes are intended to show some of the finer distinctions within the HLC Types and dataset. Where no further distinctions are made, the HLC Type is carried over into this classification.

Distinctive historic processes and character can be defined by the presence and absence of features in the landscape, recorded during the data collection phase of the project. These recorded attributes enable queries to be constructed within the MS Access database, to search for a set of given criteria. For example twentieth century industry can be located by querying the dataset for the following:

Where [Descriptive Group] = "Industrial" and [Date] = "Modern"

Where [Descriptive Group] and [Date] are fields in the database and "Settlement" and "Date" values held in those fields. The conforming records may then be assigned a HLC Type, in this case 'C20th Industry'. Where a type has corresponding HLC Subtypes the queries can be split to take into account differing criteria, for example:

Where [Descriptive Group] = "Industrial" and [Date] = "Modern" and [Inactive] = "Yes"

The addition of the field recording the active/inactive status of an industrial site allows us to differentiate a HLC Type by this field and add a HLC Subtype, in this case 'C20th Century Industry Inactive'.

The HLC Groups are defined by querying for the appropriate HLC Type and/or HLC Subtype, for example:

Where [HLC Type]= "Medieval Town Fields" or "Ancient Field Systems" or "Anciently Enclosed Parkland"

This extracts all records assigned the HLC Types 'Medieval Town Fields', 'Ancient Field Systems' and 'Anciently Enclosed Parkland'. This query would define the HLC Group 'Ancient Field System'.

All the queries used are 'append' queries which write the given classification into the database automatically. This query system is a flexible approach that allows different levels of detail to be created. Differing interpretations, based on new information or interrogation of the data to answer specific questions, are also possible. For example it is possible to query

the dataset for all field systems with straight boundaries and dry stone walls. All the HLC Groups, Types and Subtypes are listed in Table 12, with the relevant criteria for the creation of each HLC Type and Subtype.

HLC Group	HLC Type	HLC Sub-type	Database Criteria
Settlement	Post Medieval Settlement		UPDATE [tbl_Main Data] SET [tbl_Main Data].[HLC Type] = "Post Medieval Settlement", [tbl_Main Data].[HLC Subtype] = "Post Medieval Settlement" WHERE ((([tbl_Main Data].Date)<>"Modern") AND (([tbl_Main Data].Group)="S"));
	C20th Settlement		UPDATE [tbl_Main Data] SET [tbl_Main Data].[HLC Type] = "C20th Settlement", [tbl_Main Data].[HLC Subtype] = "C20th Settlement" WHERE ((([tbl_Main Data].Date)="Modern") AND (([tbl_Main Data].Group)="S"));
HLC Group	HLC Type		Database Criteria
Woodland	Ancient Woodland		UPDATE [tbl_Main Data] SET [tbl_Main Data].[HLC Type] = "Ancient Woodland", [tbl_Main Data].[HLC Subtype] = "Ancient Woodland" WHERE ((([tbl_Main Data].Interpretation)="Ancient") AND (([tbl_Main Data].Group)="W"));
	Post Medieval Plantation		UPDATE [tbl_Main Data] SET [tbl_Main Data].[HLC Type] = "Post Medieval Plantation", [tbl_Main Data].[HLC Subtype] = "Post Medieval Plantation" WHERE ((([tbl_Main Data].Group)="W") AND (([tbl_Main Data].Date)<>"Modern") AND (([tbl_Main Data].Interpretation) Like "Plantation*")) OR ((([tbl_Main Data].Group)="W") AND (([tbl_Main Data].Date)<>"Modern" And ([tbl_Main Data].Date)<>"Medieval") AND (([tbl_Main Data].Interpretation)<>"Regenerated" And ([tbl_Main Data].Interpretation)<>"Ancient") AND (([tbl_Main Data].Type) Like "* Regular" Or ([tbl_Main Data].Type) Like "* Semi-Regular"));
	C20th Plantation		UPDATE [tbl_Main Data] SET [tbl_Main Data].[HLC Type] = "C20th Plantation", [tbl_Main Data].[HLC Subtype] = "C20th Plantation" WHERE ((([tbl_Main Data].Interpretation) Like "Plantation*") AND (([tbl_Main Data].Group)="W") AND (([tbl_Main Data].Date)="Modern"));
	Other Woodland	Post Medieval Other Woodland	UPDATE [tbl_Main Data] SET [tbl_Main Data].[HLC Type] = "Other Woodland", [tbl_Main Data].[HLC Subtype] = "Post Medieval Other Woodland" WHERE ((([tbl_Main Data].Interpretation) Not Like "Plantation*" And ([tbl_Main Data].Interpretation) Not Like "Ancient") AND (([tbl_Main Data].Group)="W") AND (([tbl_Main Data].Date)<>"Modern"));
		C20th Other Woodland	UPDATE [tbl_Main Data] SET [tbl_Main Data].[HLC Type] = "Other Woodland", [tbl_Main Data].[HLC Subtype] = "C20th Other Woodland" WHERE ((([tbl_Main Data].Group)="W") AND (([tbl_Main Data].Interpretation)="Regenerated" Or ([tbl_Main Data].Interpretation)="Unknown") AND (([tbl_Main Data].Date)="Modern"));

Table 12: HLC Classification Data Definitions

HLC Group	HLC Type	HLC Sub-type	Database Criteria
Non-improved Land	Unimproved Land		UPDATE [tbl_Main Data] SET [tbl_Main Data].[HLC Type] = "Unimproved Land", [tbl_Main Data].[HLC Subtype] = "Unimproved Land" WHERE ((([tbl_Main Data].Group)="UG") AND (([tbl_Main Data].Type)="Heathland/Moorland" Or ([tbl_Main Data].Type)="Mossland"));
	Unimproved Land Coastal		UPDATE [tbl_Main Data] SET [tbl_Main Data].[HLC Type] = "Unimproved Land Coastal", [tbl_Main Data].[HLC Subtype] = "Unimproved Land Coastal" WHERE ((([tbl_Main Data].Group)="UG") AND (([tbl_Main Data].Type)="Esturine or Inland Marsh" Or ([tbl_Main Data].Type)="Tidal Mud & Sand Banks" Or ([tbl_Main Data].Type)="Sand Dunes" Or ([tbl_Main Data].Type)="Coastal Outcrop"));
	Flashes		UPDATE [tbl_Main Data] SET [tbl_Main Data].[HLC Type] = "Flashes", [tbl_Main Data].[HLC Subtype] = "Flashes" WHERE ((([tbl_Main Data].Group)="UG") AND (([tbl_Main Data].Type)="Flash"));
HLC Group	HLC Type	HLC Sub-type	Database Criteria
Ornamental	Deer Park	Medieval Deer Parks	UPDATE [tbl_Main Data] SET [tbl_Main Data].[HLC Type] = "Deer Park", [tbl_Main Data].[HLC Subtype] = "Medieval Deer Park" WHERE ((([tbl_Main Data].Group)="RO") AND (([tbl_Main Data].Type)="Deer Park") AND (([tbl_Main Data].Date)="Medieval"));
		Post Medieval Deer Parks	UPDATE [tbl_Main Data] SET [tbl_Main Data].[HLC Type] = "Deer Park", [tbl_Main Data].[HLC Subtype] = "Post Medieval Deer Park" WHERE ((([tbl_Main Data].Group)="RO") AND (([tbl_Main Data].Type)="Deer Park") AND (([tbl_Main Data].Date)<>"Medieval"));
	Post Medieval Ornamental Parkland		UPDATE [tbl_Main Data] SET [tbl_Main Data].[HLC Type] = "Post Medieval Ornamental Parkland", [tbl_Main Data].[HLC Subtype] = "Post Medieval Ornamental Parkland" WHERE ((([tbl_Main Data].Group)="RO") AND (([tbl_Main Data].Type)="Designed Landscape") AND (([tbl_Main Data].Date)<>"Modern"));
	C20th Ornamental Parkland		UPDATE [tbl_Main Data] SET [tbl_Main Data].[HLC Type] = "C20th Ornamental Parkland", [tbl_Main Data].[HLC Subtype] = "C20th Ornamental Parkland" WHERE ((([tbl_Main Data].Group)="RO") AND (([tbl_Main Data].Type)="Designed Landscape") AND (([tbl_Main Data].Date)="Modern"));

Table 12: HLC Classification Data Definitions

HLC Group	HLC Type	HLC Sub-type	Database Criteria
Ancient Fieldscapes	Ancient Field Systems	Irregular	UPDATE [tbl_Main Data] SET [tbl_Main Data].[HLC Type] = "Ancient Field Systems", [tbl_Main Data].[HLC Subtype] = "Ancient Field Systems Irregular" WHERE ((([tbl_Main Data].Group)="F") AND (([tbl_Main Data].Type) Like "**Semi-regular") AND (([tbl_Main Data].INTBP)="Curvilinear" Or ([tbl_Main Data].INTBP)="Aratral" Or ([tbl_Main Data].INTBP)="Sinuous") AND (([tbl_Main Data].Interpretation)<>"Enclosed Parkland" And ([tbl_Main Data].Interpretation)<>"Enclosed Open Fields" And ([tbl_Main Data].Interpretation)<>"Moss Rooms") AND (([tbl_Main Data].Date)="Early Post Medieval" Or ([tbl_Main Data].Date)="Medieval")) OR ((([tbl_Main Data].Group)="F") AND (([tbl_Main Data].Type) Like "**Irregular") AND (([tbl_Main Data].Interpretation)<>"Enclosed Parkland" And ([tbl_Main Data].Interpretation)<>"Enclosed Open Fields" And ([tbl_Main Data].Interpretation)<>"Moss Rooms") AND (([tbl_Main Data].Date)="Early Post Medieval" Or ([tbl_Main Data].Date)="Medieval")) OR ((([tbl_Main Data].Group)="F") AND (([tbl_Main Data].Type) Like "**Semi-regular") AND (([tbl_Main Data].INTBP)="Curvilinear" Or ([tbl_Main Data].INTBP)="Aratral" Or ([tbl_Main Data].INTBP)="Sinuous") AND (([tbl_Main Data].Interpretation)="Enclosed Waste or Common") AND (([tbl_Main Data].Date)="Medieval")) OR ((([tbl_Main Data].Group)="F") AND (([tbl_Main Data].Type) Like "**Irregular") AND (([tbl_Main Data].Interpretation)="Enclosed Waste or Common") AND (([tbl_Main Data].Date)="Medieval")));
		Semi-Regular	UPDATE [tbl_Main Data] SET [tbl_Main Data].[HLC Type] = "Ancient Field Systems", [tbl_Main Data].[HLC Subtype] = "Ancient Field Systems Semi-regular" WHERE ((([tbl_Main Data].Group)="F") AND (([tbl_Main Data].Type) Not Like "**Regular" And ([tbl_Main Data].Type) Like "**Semi-regular") AND (([tbl_Main Data].INTBP)="Straight" Or ([tbl_Main Data].INTBP)="None") AND (([tbl_Main Data].Interpretation)<>"Enclosed Parkland" And ([tbl_Main Data].Interpretation)<>"Enclosed Open Fields") AND (([tbl_Main Data].Date)="Early Post Medieval" Or ([tbl_Main Data].Date)="Medieval")) OR ((([tbl_Main Data].Group)="F") AND (([tbl_Main Data].Type) Not Like "**Regular" And ([tbl_Main Data].Type) Like "**Semi-regular") AND (([tbl_Main Data].INTBP)="Straight" Or ([tbl_Main Data].INTBP)="None") AND (([tbl_Main Data].Interpretation)="Enclosed Waste or Common") AND (([tbl_Main Data].Date)="Medieval")));

Table 12: HLC Classification Data Definitions

HLC Group	HLC Type	HLC Sub-type	Database Criteria
Ancient Fieldsapes	Ancient Field Systems	Regular	UPDATE [tbl_Main Data] SET [tbl_Main Data].[HLC Type] = "Ancient Field Systems", [tbl_Main Data].[HLC Subtype] = "Ancient Field Systems Regular" WHERE ((([tbl_Main Data].Group)="F") AND (([tbl_Main Data].Type) Like "** Regular") AND (([tbl_Main Data].Interpretation)<>"Enclosed Parkland" And ([tbl_Main Data].Interpretation)<>"Enclosed Open Fields" And ([tbl_Main Data].Interpretation)<>"Enclosed Waste or Common" And ([tbl_Main Data].Interpretation)<>"Moss Rooms") AND (([tbl_Main Data].Date)="Early Post Medieval" Or ([tbl_Main Data].Date)="Medieval")) OR ((([tbl_Main Data].Group)="F") AND (([tbl_Main Data].Notes) Like "**Kings Marsh*")) OR ((([tbl_Main Data].Group)="F") AND (([tbl_Main Data].Type) Like "** Regular") AND (([tbl_Main Data].Interpretation)="Enclosed Waste or Common") AND (([tbl_Main Data].Date)="Medieval")));
		Moss Rooms	UPDATE [tbl_Main Data] SET [tbl_Main Data].[HLC Type] = "Ancient Field Systems", [tbl_Main Data].[HLC Subtype] = "Moss Rooms" WHERE ((([tbl_Main Data].Group)="F") AND (([tbl_Main Data].Interpretation)="Moss Rooms")));
	Anciently Enclosed Parkland		UPDATE [tbl_Main Data] LEFT JOIN [tbl_Calc Area] ON [tbl_Main Data].UID = [tbl_Calc Area].UID SET [tbl_Main Data].[HLC Type] = "Anciently Enclosed Parkland", [tbl_Main Data].[HLC Subtype] = "Anciently Enclosed Parkland" WHERE ((([tbl_Main Data].Group)="F") AND (([tbl_Main Data].Interpretation)="Enclosed Parkland") AND (([tbl_Main Data].Date)<>"Modern" And ([tbl_Main Data].Date)<>"Late Post Medieval")));
	Medieval Townfields		UPDATE [tbl_Main Data] SET [tbl_Main Data].[HLC Type] = "Medieval Townfields", [tbl_Main Data].[HLC Subtype] = "Medieval Townfields" WHERE ((([tbl_Main Data].Group)="F") AND (([tbl_Main Data].Interpretation)="Enclosed Open Fields")));

Table 12: HLC Classification Data Definitions

HLC Group	HLC Type		Database Criteria
Post Medieval Field Systems	Post Medieval Field Systems	Post Medieval Planned Enclosure	UPDATE [tbl_Main Data] SET [tbl_Main Data].[HLC Type] = "Post Medieval Field Systems", [tbl_Main Data].[HLC Subtype] = "Post Medieval Planned Enclosure" WHERE ((([tbl_Main Data].Notes) Not Like "*C19th*") AND ((([tbl_Main Data].Group)="F") AND (([tbl_Main Data].Interpretation)="Planned Private Enclosure") AND (([tbl_Main Data].Date)="Late Post Medieval") AND (([tbl_Main Data].P1Type)<>"Esturine or Inland Marsh" Or ([tbl_Main Data].P1Type) Is Null)) OR ((([tbl_Main Data].Notes) Is Null) AND (([tbl_Main Data].Group)="F") AND (([tbl_Main Data].Interpretation)="Planned Private Enclosure") AND (([tbl_Main Data].Date)="Late Post Medieval") AND (([tbl_Main Data].P1Type)<>"Esturine or Inland Marsh" Or ([tbl_Main Data].P1Type) Is Null));
		Post Medieval Planned Enclosure of Marsh	UPDATE [tbl_Main Data] SET [tbl_Main Data].[HLC Type] = "Post Medieval Field Systems", [tbl_Main Data].[HLC Subtype] = "Post Medieval Planned Enclosure of Marsh" WHERE ((([tbl_Main Data].Notes) Not Like "*C19th*") AND (([tbl_Main Data].Group)="F") AND (([tbl_Main Data].Interpretation)="Planned Private Enclosure") AND (([tbl_Main Data].Date)="Late Post Medieval") AND (([tbl_Main Data].P1Type)="Esturine or Inland Marsh")) OR ((([tbl_Main Data].Notes) Is Null) AND (([tbl_Main Data].Group)="F") AND (([tbl_Main Data].Interpretation)="Planned Private Enclosure") AND (([tbl_Main Data].Date)="Late Post Medieval") AND (([tbl_Main Data].P1Type)="Esturine or Inland Marsh"));

Table 12: HLC Classification Data Definitions

HLC Group	HLC Type		Database Criteria
Post Medieval Field Systems	Post Medieval Field Systems	Post Medieval Enclosure	<p>UPDATE [tbl_Main Data] SET [tbl_Main Data].[HLC Type] = "Post Medieval Field Systems", [tbl_Main Data].[HLC Subtype] = "Post Medieval Enclosure"</p> <p>WHERE ((([tbl_Main Data].Notes) Not Like "*C19th*" And ([tbl_Main Data].Notes) Not Like "*Kings Marsh*") AND (([tbl_Main Data].Group)="F") AND (([tbl_Main Data].Interpretation)="Enclosed Waste or Common") AND (([tbl_Main Data].Date)="Late Post Medieval")) OR ((([tbl_Main Data].Notes) Is Null) AND (([tbl_Main Data].Group)="F") AND (([tbl_Main Data].Interpretation)="Enclosed Waste or Common") AND (([tbl_Main Data].Date)="Late Post Medieval")) OR ((([tbl_Main Data].Notes) Not Like "*C19th*" And ([tbl_Main Data].Notes) Not Like "*Kings Marsh*") AND (([tbl_Main Data].Group)="F") AND (([tbl_Main Data].Interpretation)="Enclosed Waste or Common") AND (([tbl_Main Data].Date)<>"Medieval") AND (([tbl_Main Data].Type) Like "* Regular")) OR ((([tbl_Main Data].Notes) Is Null) AND (([tbl_Main Data].Group)="F") AND (([tbl_Main Data].Interpretation)="Enclosed Waste or Common") AND (([tbl_Main Data].Date)<>"Medieval") AND (([tbl_Main Data].Type) Like "* Regular")) OR ((([tbl_Main Data].Notes) Not Like "*C19th*" And ([tbl_Main Data].Notes) Not Like "*Kings Marsh*") AND (([tbl_Main Data].Group)="F") AND (([tbl_Main Data].Interpretation)="Assarts") AND (([tbl_Main Data].Date)="Late Post Medieval")) OR ((([tbl_Main Data].Notes) Is Null) AND (([tbl_Main Data].Group)="F") AND (([tbl_Main Data].Interpretation)="Assarts") AND (([tbl_Main Data].Date)="Late Post Medieval")) OR ((([tbl_Main Data].Notes) Not Like "*C19th*" And ([tbl_Main Data].Notes) Not Like "*Kings Marsh*") AND (([tbl_Main Data].Group)="F") AND (([tbl_Main Data].Interpretation)="Enclosed Meadow") AND (([tbl_Main Data].Date)="Late Post Medieval")) OR ((([tbl_Main Data].Notes) Is Null) AND (([tbl_Main Data].Group)="F") AND (([tbl_Main Data].Interpretation)="Enclosed Meadow") AND (([tbl_Main Data].Date)="Late Post Medieval")) OR ((([tbl_Main Data].Notes) Not Like "*C19th*" And ([tbl_Main Data].Notes) Not Like "*Kings Marsh*") AND (([tbl_Main Data].Group)="F") AND (([tbl_Main Data].Interpretation)="Piecemeal Enclosure") AND (([tbl_Main Data].Date)="Late Post Medieval")) OR ((([tbl_Main Data].Notes) Like "*Threapwood*") AND (([tbl_Main Data].Group)="F")) OR ((([tbl_Main Data].Notes) Is Null) AND (([tbl_Main Data].Group)="F") AND (([tbl_Main Data].Interpretation)="Piecemeal Enclosure") AND (([tbl_Main Data].Date)="Late Post Medieval"));</p>

Table 12: HLC Classification Data Definitions

HLC Group	HLC Type		Database Criteria
Post Medieval Field Systems	C19th Field Systems	Parliamentary Enclosure	UPDATE [tbl_Main Data] SET [tbl_Main Data].[HLC Type] = "C19th Field Systems", [tbl_Main Data].[HLC Subtype] = "Parliamentary Enclosure" WHERE ((([tbl_Main Data].Group)="F") AND (([tbl_Main Data].Interpretation)="Parliamentary Enclosure"));
		C19th Post Medieval Planned Enclosure	UPDATE [tbl_Main Data] SET [tbl_Main Data].[HLC Type] = "C19th Field Systems", [tbl_Main Data].[HLC Subtype] = "C19th Planned Enclosure" WHERE ((([tbl_Main Data].Notes) Like "*C19th*") AND (([tbl_Main Data].Group)="F") AND (([tbl_Main Data].Interpretation)="Planned Private Enclosure") AND (([tbl_Main Data].Date)="Late Post Medieval") AND (([tbl_Main Data].P1Type)<>"Esturine or Inland Marsh" Or ([tbl_Main Data].P1Type) Is Null)) OR ((([tbl_Main Data].Notes) Like "*Burdett*" And ([tbl_Main Data].Notes) Not Like "*C18th*") AND (([tbl_Main Data].Group)="F") AND (([tbl_Main Data].Interpretation)="Planned Private Enclosure") AND (([tbl_Main Data].Date)="Late Post Medieval") AND (([tbl_Main Data].P1Type)<>"Esturine or Inland Marsh" Or ([tbl_Main Data].P1Type) Is Null));
		C19th Post Medieval Planned Enclosure of Marsh	UPDATE [tbl_Main Data] SET [tbl_Main Data].[HLC Type] = "C19th Field Systems", [tbl_Main Data].[HLC Subtype] = "C19th Planned Enclosure of Marsh" WHERE ((([tbl_Main Data].Notes) Like "*C19th*") AND (([tbl_Main Data].Group)="F") AND (([tbl_Main Data].Interpretation)="Planned Private Enclosure") AND (([tbl_Main Data].Date)="Late Post Medieval") AND (([tbl_Main Data].P1Type)="Esturine or Inland Marsh")) OR ((([tbl_Main Data].Notes) Like "*Burdett*" And ([tbl_Main Data].Notes) Not Like "*C18th*") AND (([tbl_Main Data].Group)="F") AND (([tbl_Main Data].Interpretation)="Planned Private Enclosure") AND (([tbl_Main Data].Date)="Late Post Medieval") AND (([tbl_Main Data].P1Type)="Esturine or Inland Marsh"));

Table 12: HLC Classification Data Definitions

HLC Group	HLC Type		Database Criteria
Post Medieval Field Systems	C19th Field Systems	C19th Enclosure	UPDATE [tbl_Main Data] SET [tbl_Main Data].[HLC Type] = "C19th Field Systems", [tbl_Main Data].[HLC Subtype] = "C19th Enclosure" WHERE ((([tbl_Main Data].Notes) Like "*C19th*") AND (([tbl_Main Data].Group)="F") AND (([tbl_Main Data].Interpretation)="Enclosed Waste or Common") AND (([tbl_Main Data].Date)="Late Post Medieval")) OR ((([tbl_Main Data].Notes) Like "*Burdett*" And ([tbl_Main Data].Notes) Not Like "*C18th*") AND (([tbl_Main Data].Group)="F") AND (([tbl_Main Data].Interpretation)="Enclosed Waste or Common") AND (([tbl_Main Data].Date)="Late Post Medieval")) OR ((([tbl_Main Data].Notes) Like "*C19th*") AND (([tbl_Main Data].Group)="F") AND (([tbl_Main Data].Interpretation)="Assarts") AND (([tbl_Main Data].Date)="Late Post Medieval")) OR ((([tbl_Main Data].Notes) Like "*Burdett*" And ([tbl_Main Data].Notes) Not Like "*C18th*") AND (([tbl_Main Data].Group)="F") AND (([tbl_Main Data].Interpretation)="Assarts") AND (([tbl_Main Data].Date)="Late Post Medieval")) OR ((([tbl_Main Data].Notes) Like "*C19th*") AND (([tbl_Main Data].Group)="F") AND (([tbl_Main Data].Interpretation)="Enclosed Meadow") AND (([tbl_Main Data].Date)="Late Post Medieval")) OR ((([tbl_Main Data].Notes) Like "*Burdett*" And ([tbl_Main Data].Notes) Not Like "*C18th*") AND (([tbl_Main Data].Group)="F") AND (([tbl_Main Data].Interpretation)="Enclosed Meadow") AND (([tbl_Main Data].Date)="Late Post Medieval"));
	Late Post Medieval Agricultural Improvement		UPDATE [tbl_Main Data] SET [tbl_Main Data].[HLC Type] = "Late Post Medieval Agricultural Improvement", [tbl_Main Data].[HLC Subtype] = "Late Post Medieval Agricultural Improvement" WHERE ((([tbl_Main Data].Group)="F") AND (([tbl_Main Data].Interpretation)="Re-organised Field") AND (([tbl_Main Data].Date)="Late Post Medieval")) OR ((([tbl_Main Data].Group)="F") AND (([tbl_Main Data].Interpretation)="Reclaimed Industrial Land") AND (([tbl_Main Data].Date)="Late Post Medieval"));
	Post Medieval Enclosed Parkland		UPDATE [tbl_Main Data] LEFT JOIN [tbl_Calc Area] ON [tbl_Main Data].UID = [tbl_Calc Area].UID SET [tbl_Main Data].[HLC Type] = "Post Medieval Enclosed Parkland", [tbl_Main Data].[HLC Subtype] = "Post Medieval Enclosed Parkland" WHERE ((([tbl_Main Data].Group)="F") AND (([tbl_Main Data].Interpretation)="Enclosed Parkland") AND (([tbl_Main Data].Date)="Late Post Medieval"));

Table 12: HLC Classification Data Definitions

HLC Group	HLC Type	Sub-type	Database Criteria
C20th Field Systems	C20th Field Systems		UPDATE [tbl_Main Data] LEFT JOIN [tbl_Calc Area] ON [tbl_Main Data].UID = [tbl_Calc Area].UID SET [tbl_Main Data].[HLC Type] = "C20th Field Systems", [tbl_Main Data].[HLC Subtype] = "C20th Field Systems" WHERE ((([tbl_Main Data].Group)="F") AND (([tbl_Main Data].Interpretation)="Re-organised Field") AND (([tbl_Main Data].Date)="Modern") AND (([tbl_Calc Area].AVE_PA)>8)) OR ((([tbl_Main Data].Group)="F") AND (([tbl_Main Data].Interpretation)="Reclaimed Industrial Land") AND (([tbl_Main Data].Date)="Modern")) OR ((([tbl_Main Data].Group)="F") AND (([tbl_Main Data].Interpretation) Not Like "Re-organised Field" And ([tbl_Main Data].Interpretation) Not Like "Enclosed Parkland") AND (([tbl_Main Data].Date)="Modern")) OR ((([tbl_Main Data].Group)="F") AND (([tbl_Main Data].Interpretation)="Re-organised Field") AND (([tbl_Main Data].Date)="Modern") AND (([tbl_Main Data].Type) Like "Large*")) OR ((([tbl_Main Data].Group)="F") AND (([tbl_Main Data].Interpretation)="Enclosed Parkland") AND (([tbl_Main Data].Date)="Modern") AND (([tbl_Calc Area].AVE_PA)>8));
	C20th Agricultural Improvement		UPDATE [tbl_Main Data] LEFT JOIN [tbl_Calc Area] ON [tbl_Main Data].UID = [tbl_Calc Area].UID SET [tbl_Main Data].[HLC Type] = "C20th Agricultural Improvement", [tbl_Main Data].[HLC Subtype] = "C20th Agricultural Improvement" WHERE ((([tbl_Main Data].Group)="F") AND (([tbl_Main Data].Interpretation)="Re-organised Field") AND (([tbl_Main Data].Date)="Modern") AND (([tbl_Calc Area].AVE_PA)<=8));
	C20th Enclosed Parkland		UPDATE [tbl_Main Data] LEFT JOIN [tbl_Calc Area] ON [tbl_Main Data].UID = [tbl_Calc Area].UID SET [tbl_Main Data].[HLC Type] = "C20th Enclosed Parkland", [tbl_Main Data].[HLC Subtype] = "C20th Enclosed Parkland" WHERE ((([tbl_Main Data].Group)="F") AND (([tbl_Main Data].Interpretation)="Enclosed Parkland") AND (([tbl_Main Data].Date)="Modern") AND (([tbl_Calc Area].AVE_PA)<=8));

Table 12: HLC Classification Data Definitions

HLC Group	HLC Type	Sub-type	Database Criteria
Military	Other Military		UPDATE [tbl_Main Data] SET [tbl_Main Data].[HLC Type] = "Other Military", [tbl_Main Data].[HLC Subtype] = "Other Military" WHERE ((([tbl_Main Data].Date)<>"Modern") AND (([tbl_Main Data].Group)="M"));
	C20th Military	C20th Military Active	UPDATE [tbl_Main Data] SET [tbl_Main Data].[HLC Type] = "C20th Military", [tbl_Main Data].[HLC Subtype] = "C20th Military Active" WHERE ((([tbl_Main Data].Date)="Modern") AND (([tbl_Main Data].Group)="M") AND (([tbl_Main Data].Inactive)=No));
		C20th Military Inactive	UPDATE [tbl_Main Data] SET [tbl_Main Data].[HLC Type] = "C20th Military", [tbl_Main Data].[HLC Subtype] = "C20th Military Inactive" WHERE ((([tbl_Main Data].Date)="Modern") AND (([tbl_Main Data].Group)="M") AND (([tbl_Main Data].Inactive)=Yes));
HLC Group	HLC Type	HLC Sub-type	Database Criteria
Communi- cations	Post Medieval Communications	Post Medieval Communications Active	UPDATE [tbl_Main Data] SET [tbl_Main Data].[HLC Type] = "Post Medieval Communications", [tbl_Main Data].[HLC Subtype] = "Post Medieval Communications Active" WHERE ((([tbl_Main Data].Date)<>"Modern") AND (([tbl_Main Data].Group)="C") AND (([tbl_Main Data].Inactive)=No));
		Post Medieval Communications Inactive	UPDATE [tbl_Main Data] SET [tbl_Main Data].[HLC Type] = "Post Medieval Communications", [tbl_Main Data].[HLC Subtype] = "Post Medieval Communications Inactive" WHERE ((([tbl_Main Data].Date)<>"Modern") AND (([tbl_Main Data].Group)="C") AND (([tbl_Main Data].Inactive)=Yes));
	C20th Communications		UPDATE [tbl_Main Data] SET [tbl_Main Data].[HLC Type] = "C20th Communications", [tbl_Main Data].[HLC Subtype] = "C20th Communications" WHERE ((([tbl_Main Data].Date)="Modern") AND (([tbl_Main Data].Group)="C"));

Table 12: HLC Classification Data Definitions

HLC Group	HLC Type	Sub-type	Database Criteria
Industry	Post Medieval Industry	Post Medieval Industry Active	UPDATE [tbl_Main Data] SET [tbl_Main Data].[HLC Type] = "Post Medieval Industry", [tbl_Main Data].[HLC Subtype] = "Post Medieval Industry Active" WHERE ((([tbl_Main Data].Date)<>"Modern") AND (([tbl_Main Data].Group)="IT") AND (([tbl_Main Data].Inactive)=No));
		Post Medieval Industry Inactive	UPDATE [tbl_Main Data] SET [tbl_Main Data].[HLC Type] = "Post Medieval Industry", [tbl_Main Data].[HLC Subtype] = "Post Medieval Industry Inactive" WHERE ((([tbl_Main Data].Date)<>"Modern") AND (([tbl_Main Data].Group)="IT") AND (([tbl_Main Data].Inactive)=Yes));
		Post Medieval Agri-industrial	UPDATE [tbl_Main Data] SET [tbl_Main Data].[HLC Type] = "Post Medieval Industry", [tbl_Main Data].[HLC Subtype] = "Post Medieval Agri-Industrial" WHERE ((([tbl_Main Data].Date)<>"Modern") AND (([tbl_Main Data].Group)="IT") AND (([tbl_Main Data].Type)="Agri Industrial" Or ([tbl_Main Data].Type)="Nursery"));
	C20th Industry	C20th Industry Active	UPDATE [tbl_Main Data] SET [tbl_Main Data].[HLC Type] = "C20th Industry", [tbl_Main Data].[HLC Subtype] = "C20th Industry Active" WHERE ((([tbl_Main Data].Date)="Modern") AND (([tbl_Main Data].Group)="IT") AND (([tbl_Main Data].Inactive)=No) AND (([tbl_Main Data].Type)<>"Agri Industrial" And ([tbl_Main Data].Type)<>"Nursery" And ([tbl_Main Data].Type)<>"Salt Cavity Gas Storage"));
		C20th Industry Inactive	UPDATE [tbl_Main Data] SET [tbl_Main Data].[HLC Type] = "C20th Industry", [tbl_Main Data].[HLC Subtype] = "C20th Industry Inactive" WHERE ((([tbl_Main Data].Date)="Modern") AND (([tbl_Main Data].Group)="IT") AND (([tbl_Main Data].Inactive)=Yes) AND (([tbl_Main Data].Type)<>"Agri Industrial" And ([tbl_Main Data].Type)<>"Nursery" And ([tbl_Main Data].Type)<>"Salt Cavity Gas Storage"));
		C20th Agri-industrial	UPDATE [tbl_Main Data] SET [tbl_Main Data].[HLC Type] = "C20th Industry", [tbl_Main Data].[HLC Subtype] = "C20th Agri-Industrial" WHERE ((([tbl_Main Data].Date)="Modern") AND (([tbl_Main Data].Group)="IT") AND (([tbl_Main Data].Type)="Agri Industrial" Or ([tbl_Main Data].Type)="Nursery"));
		C20th Salt Gas Cavity Storage	UPDATE [tbl_Main Data] SET [tbl_Main Data].[HLC Type] = "C20th Industry", [tbl_Main Data].[HLC Subtype] = "C20th Salt Cavity Gas Storage" WHERE ((([tbl_Main Data].Date)="Modern") AND (([tbl_Main Data].Group)="IT") AND (([tbl_Main Data].Type)="Salt Cavity Gas Storage"));

Table 12: HLC Classification Data Definitions

HLC Group	HLC Type	Sub-type	Database Criteria
Recreation	Post Medieval Recreation		UPDATE [tbl_Main Data] SET [tbl_Main Data].[HLC Type] = "Post Medieval Recreation", [tbl_Main Data].[HLC Subtype] = "Post Medieval Recreation" WHERE ((([tbl_Main Data].Group)="RO") AND (([tbl_Main Data].Type)<>"Golf Course" And ([tbl_Main Data].Type)<>"Deer Park" And ([tbl_Main Data].Type)<>"Designed Landscape") AND (([tbl_Main Data].Date)<>"Modern"));
	C20th Recreation		UPDATE [tbl_Main Data] SET [tbl_Main Data].[HLC Type] = "C20th Recreation", [tbl_Main Data].[HLC Subtype] = "C20th Recreation" WHERE ((([tbl_Main Data].Group)="RO") AND (([tbl_Main Data].Type)<>"Golf Course" And ([tbl_Main Data].Type)<>"Deer Park" And ([tbl_Main Data].Type)<>"Designed Landscape") AND (([tbl_Main Data].Date)="Modern"));
	Golf Course	Post Medieval Golf Course	UPDATE [tbl_Main Data] SET [tbl_Main Data].[HLC Type] = "Golf Course", [tbl_Main Data].[HLC Subtype] = "Post Medieval Golf Course" WHERE ((([tbl_Main Data].Group)="RO") AND (([tbl_Main Data].Type)="Golf Course") AND (([tbl_Main Data].Date)="Late Post Medieval"));
		C20th Golf Course	UPDATE [tbl_Main Data] SET [tbl_Main Data].[HLC Type] = "Golf Course", [tbl_Main Data].[HLC Subtype] = "C20th Golf Course" WHERE ((([tbl_Main Data].Group)="RO") AND (([tbl_Main Data].Type)="Golf Course") AND (([tbl_Main Data].Date)="Modern"));
HLC Group	HLC Type	Sub-type	Database Criteria
Water Bodies	Natural Water Bodies		UPDATE [tbl_Main Data] SET [tbl_Main Data].[HLC Type] = "Natural Water Bodies", [tbl_Main Data].[HLC Subtype] = "Natural Water Bodies" WHERE ((([tbl_Main Data].Group)="WB") AND (([tbl_Main Data].Type)<>"Open Waters-Artificial"));
	Other Artificial Water Bodies		UPDATE [tbl_Main Data] SET [tbl_Main Data].[HLC Type] = "Other Artificial Water Bodies", [tbl_Main Data].[HLC Subtype] = "Other Artificial Water Bodies" WHERE ((([tbl_Main Data].Date)<>"Modern") AND (([tbl_Main Data].Group)="WB") AND (([tbl_Main Data].Type)="Open Waters-Artificial"));
	C20th Artificial Water Bodies		UPDATE [tbl_Main Data] SET [tbl_Main Data].[HLC Type] = "C20th Artificial Water Bodies", [tbl_Main Data].[HLC Subtype] = "C20th Artificial Water Bodies" WHERE ((([tbl_Main Data].Date)="Modern") AND (([tbl_Main Data].Group)="WB") AND (([tbl_Main Data].Type)="Open Waters-Artificial"));

Table 12: HLC Classification Data Definitions

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Appendix D: GIS Dataset Information & End User Agreement

County Historic Environment Record Historic Environment GIS Datasets Agreement

Introduction

The Historic Environment Team of Cheshire County Council maintains the County Historic Environment Record (CHER), formerly known as the Sites and Monuments Record (SMR), which is the database of all known historic environment sites, buildings, landscapes and find-spots in the County of Cheshire and Boroughs of Halton and Warrington. It includes all designated historic environment features such as Scheduled Monuments; Listed Buildings, Registered Parks and Gardens and Battlefields.

The inclusion of a site in the County Historic Environment Record in no way implies that public access is available. The vast majority of sites (including Scheduled Monuments) and buildings are on private land and have no public access.

The County Historic Environment Record can provide data on Scheduled Monuments, other sites recorded in the HER, Listed Buildings, Registered Battlefields, Registered Parks & Gardens, Historic Towns and Historic Landscape Character to Partner Organisations for incorporation into their GIS or for use on constraint maps or specific projects (see below).

Historic Environment data sets are supplied on the understanding that they are for the use of the relevant Organisation only and should not be sold, copied or passed on to any third party without our express permission. All datasets should be returned or destroyed the end of the programme of work for which they were supplied.

Cheshire County Council and its officers cannot accept responsibility for any omissions or consequences of errors due to the use of this data and will not accept any claims for negligence or compensation.

A County Historic Environment Record Conditions of Use form and (if attached) Ordnance Survey End User Licence for local authority data derived from Ordnance Survey material must be signed prior to release of the data. This document

For further details contact:

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Cheshire Historic Landscape Characterisation Data

The Cheshire Historic Landscape Characterisation is part of a national programme developed and funded by English Heritage and encompassed the County of Cheshire, Boroughs of Halton and Warrington and the Metropolitan Borough of the Wirral.

Human activity and social organisation have an impact on the landscape which is often visible today. Historic Landscape Characterisation involves the examination of the modern landscape, in order to infer the historic processes that have formed that landscape as it is seen today. The modern landscape, field shape, settlement patterns etc, is systematically assessed and compared to 19th century Ordnance Survey maps to assess change and time depth. The collated data is held in a database, which can be analysed to produce broad or detailed historic landscape classifications, answer specific questions or map change and whose results can be displayed through a Geographic Information System to produce map based interpretative models.

Historic Landscape Characterisation aims to improve our understanding and appreciation of the historic landscape; by interpreting how past communities have contributed to its form and appearance. It creates an important body of knowledge and a tool to help make informed decisions on conservation and development proposals from a strategic level, feeding into Cheshire's Landscape Character Assessment, to a more local level, through Local development Frameworks and Agri-Environment schemes. The project has identified a range of historic landscape types and has made recommendations for their future management, in addition to creating a wide data set which can be used as a start point for research into Cheshire's historic landscape. The project report is available as a .pdf, via the Historic Environment Teams web site:

http://www.cheshire.gov.uk/Planning/NaturalHistoricEnvironment/Historic/NHE_Historic_Index.htm

Cheshire Historic Landscape Characterisation Polygon Data

Data can be provided as an ArcView Shape-file (.shp) or Personal Geo-database with the following attribute data. In addition the Personal Geo-database holds each HLC Group as an individual feature class.

Attribute	Description
HLCUID	HLC Unique Identifier
HLCGroup	HLC Group
HLCType	HLC Type
HLCTSubtype	HLC Sub-type
Management	A hyper-link to the description/management recommendations
Shape_Length	Perimeter of the polygon in Meters
Shape_Area	Area of polygon in Square Meters

Both versions contain a hyper-link to the Cheshire County Council web site, which enables quick and easy access to the descriptions and management recommendations for each HLC Group, Type and Subtype straight from the GIS.

End-user licence for local authority data derived from Ordnance Survey material

The derived data which is identified on the attached schedule and hereafter referred to as the local authority dataset are supplied on condition that the end-user (hereafter referred to as the customer) agrees to the terms set forth in this licence agreement as evidenced by the customer's signature in the schedule. Before using the local authority dataset supplied, the customer should complete the attached schedule and return a copy to the address shown. The customer must keep a copy of this licence agreement for their own records. To use the local authority dataset without completing and returning this licence agreement is an infringement of both local authority and Crown copyright and the customer may be liable to prosecution or civil proceedings.

1 *Licence*

In consideration of any payment, which includes a royalty fee payable to Ordnance Survey, as part of the price for the product or service specified in the attached schedule, Ordnance Survey hereby grants the customer a non-transferable non-exclusive licence to use the local authority dataset specified in the attached schedule subject to the following terms and conditions.

2 *Restrictions on use*

This licence agreement authorises the customer to use the local authority dataset solely for their internal business purposes, where facilities may include plotting, processing and manipulating the data. The local authority dataset is not to be used by the customer to provide a bureau service to a third party or for the benefit of or on behalf of a third party. The local authority dataset must not be reproduced, copied, sublicensed, passed, sold, demonstrated or lent, or otherwise transferred in data form by the customer to any third party without the prior written consent of both local authority and Ordnance Survey.

Any attempt by the customer to break any encryption code or reverse engineer any product containing the local authority dataset in order to extract the local authority dataset will terminate this licence agreement.

The customer may only reproduce hard copies in connection with undertaking the responsibilities as laid out in paragraph 2.1. Prior written approval is required from both the local authority and Ordnance Survey for any additional use.

For the avoidance of doubt, this licence agreement does not include the following activities:

- the reproduction and use of the local authority dataset outside of this licence;
- the incorporation of the local authority dataset in a third party product;
- the development of value-added products using the local authority dataset;
- the demonstration of the local authority dataset at exhibitions or seminars;
- the transfer of the local authority dataset into any other computer readable form; or
- the digitising or scanning of the local authority dataset.

It is the responsibility of the customer to ensure that the local authority dataset is not copied or used in any way which is contrary to the conditions of this licence agreement.

The customer must ensure that neither they nor anyone else removes, changes or restricts any proprietary or copyright notices on the local authority dataset or any accompanying documentation or packaging.

This licence agreement does not cover the reproduction of hard copies in publications (that is promotional material, brochures, leaflets and so on) to be sold or distributed free of charge to the public. Separate permission must be sought from both the local authority and Ordnance Survey as different terms and conditions will apply. In addition, Ordnance Survey reserve the right to decide when their publishing rules apply.

3 Additional and back-up copies

Subject to any other terms pertinent to the local authority, the customer may make sufficient copies of the local authority dataset to satisfy their internal business requirements without the prior approval of both the local authority and Ordnance Survey.

4 Copyright

The local authority dataset is protected under the Copyright, Designs and Patents Act 1988 (the Act). The legal and beneficial ownership of the copyright of the local authority dataset in this agreement is held by the local authority. The dataset has been created under a separate licensing arrangement with Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office (HMSO) who has passed the responsibility for managing copyright in Ordnance Survey and Ordnance Survey-derived information to the Director General Ordnance Survey. The local authority dataset supplied to the customer under the terms of this licence agreement remains the property of the local authority.

Plots or prints of the Historic Landscape Characterisation dataset must contain the following acknowledgement:

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5 Duration and termination

Without prejudice to Ordnance Survey's accrued rights and remedies, Ordnance Survey may, following agreement from the local authority and upon notice in writing, forthwith terminate this licence agreement if the customer is in breach of any of its terms, or there is any infringement or alleged infringement of Ordnance Survey's intellectual property rights in the local authority dataset, or if the customer (being a company) becomes insolvent or insolvency proceedings are commenced, or is unable to pay its debts when or (being an individual) is bankrupt or bankruptcy proceedings are commenced against him or her.

If the customer transfers possession of the local authority dataset or any copy, partial copy, modification or merged portion of the local authority dataset to another party, this licence agreement is automatically terminated.

Upon termination of this licence agreement the customer will immediately cease use of the local authority dataset and will destroy all copies of the local authority dataset held, including any security or back-up copies.

The customer shall, at any reasonable time, grant to an accredited representative of either the local authority or Ordnance Survey facilities for checking the observance of the conditions of this licence agreement.

6 Liabilities

All warranties, conditions, undertakings, terms and obligations implied by statute, common law or otherwise are excluded to the fullest extent permitted. In particular, Ordnance Survey shall have no liability for breach of any implied terms as to satisfactory quality or fitness for

any particular purpose or application, including (but not limited to) currency, accuracy, content or technical specification of the local authority dataset, as it is the customer's responsibility to ensure that the local authority dataset is suitable for its needs.

Neither Ordnance Survey nor the local authority shall be liable for all or any indirect or consequential losses, including (without limitation), loss of profits, contracts, business, loss or corruption of data resulting from the customer's use of the local authority dataset.

In the event that any exclusion or other provision contained in this licence agreement shall be held invalid or unenforceable and either Ordnance Survey or the local authority shall become liable for the loss or damage that could otherwise have been limited, such total and aggregate liability under this licence (except in relation to death or personal injury where no limit applies) whether in contract, tort (including negligence), or otherwise shall not exceed the price paid by the customer for the product specified in the schedule.

If the customer is a consumer as defined in the Unfair Contract Terms Act 1977 this licence agreement does not affect their statutory rights.

7 Law

This licence agreement shall be governed by English Law and subject to the jurisdiction of the English courts.

8 Assignments

The customer 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 both the local authority and Ordnance Survey, which shall not be unreasonably withheld.

Ordnance Survey is a government agency. It shall be entitled to specifically assign the benefit and obligations of this licence agreement to any other government department or agency, or to change its constitution or any other aspect of its presentation or constructions without adversely affecting its rights under this licence agreement.

9 Trademarks

Ordnance Survey and the OS Symbol are registered trademarks of Ordnance Survey, the national mapping agency of Great Britain.

10 Schedule

Derived data licence agreement for the supply and use of the local authority datasets as described in the enclosed document entitled *County Historic Environment Record Historic Environment GIS Datasets*.

In order to register your use of these datasets, please complete the licence details below. Keep a copy and return this completed original schedule to:

Rob Edwards
Historic Environment Records Officer,
Historic Environment Team, Transport & Regeneration Service,
Cheshire County Council, Backford Hall,
Backford, Chester, Cheshire,
CH1 6PZ.

End-user licence for local authority data derived from Ordnance Survey material

I hereby agree to the terms of this licence.

Signature

Please Print Name

Customer name:

Address:.

Date:

NOTE: This information may be held in a database for local authority and Ordnance Survey information purposes only.

