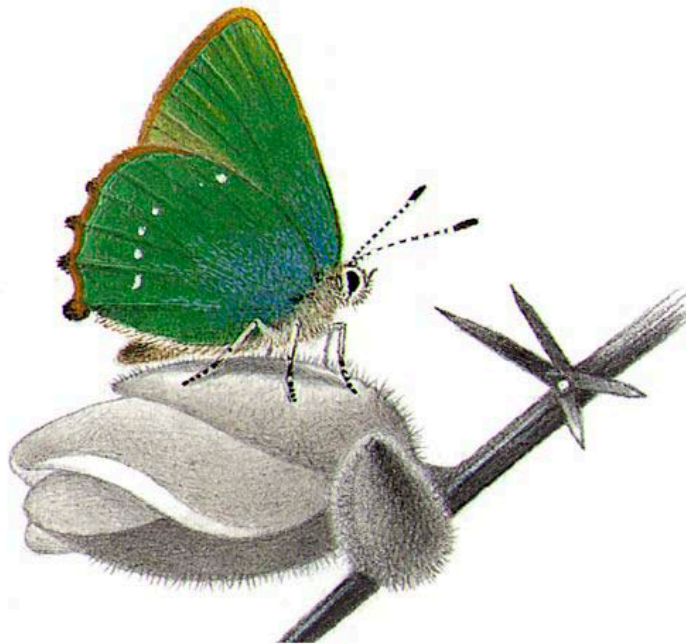




RYTON WOOD AND MEADOWS
SURVEY REPORT

2007



Compiled by Mike Slater

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RYTON WOOD AND POOL

SURVEY REPORTS 2007

This report covers the four woodland transects and one grassland transect. These transects monitor most of Ryton Wood SSSI, a Warwickshire Wildlife Trust nature reserve and all of Ryton Wood Meadows a Butterfly Conservation reserve. In addition, two woodland transects, Ryton Wood & Pool and Ryton Wood North have special transects to monitor their Purple and White-letter Hairstreak species. There is also a special section that covers additional breeding areas for 4 key spring species, Grizzled Skipper, Dingy Skipper, Green Hairstreak and Wood White. Finally, four male Purple Emperor congregation areas are also monitored.

Explanatory comments on the tables used in this report.

The tables give a quantitative comment on the performance of each species on individual sections and each transect as a whole. The comments made are derived from how each species varied from its cumulative mean.

S	=	Stable	Variation +/- 20% from mean
P	=	Poor	Decreased greater than 20% from mean
VP	=	Very Poor	Decreased greater than 50% from mean
G	=	Good	Increased greater than 20% from mean
VG	=	Very Good	Increased greater than 50% but less than 100% from mean
E	=	Exceptional	Increased greater than 100% from mean
Ab	=	Absent	Not recorded this year but recorded in past years
<	=	Decrease	
>	=	Increase	
Nsp	=	New Species	Recorded for the first time on that section/transect

Transect Performance Summary

Total Number of Butterflies Recorded

Transect	2007	2006	Total all Years	Mean	Change	Comment
Ryton Wood Meadows 1 section added 1999 4 sections added 2003 total 6 sections	1,717	2,153	24,797	1,378	> 25%	Good
Ryton Wood & Pool (Wood Only) 5 sections	545	593	18,230	1,013	< 46%	Poor
Ryton Wood North 5 sections	404	394	7,624	448	< 10%	Stable
Ryton Wood East 8 sections	1,150	1,435	18,244	1,403	< 18%	Stable
Ryton Wood West 6 sections	348	331	2,175	217	> 60%	Very Good
Ryton Wood & Pool Hairstreak monitoring 5 sections	87	204	5,356	298	< 71%	Very Poor
Ryton Wood North Hairstreak monitoring 3 sections	45	79	1,846	115	< 61%	Very Poor
Purple Emperor monitoring	5	18	28	9	< 44%	Poor
Ryton Wood Meadows Day Flying Moths monitoring 6 sections	83	394	2,567	151	< 45%	Poor

Individual Butterfly Performance Summary

Small Skipper

Historically Recorded in 24 Sections

2007 Performance Very Poor Year

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
	1			2		4	17

Overall a very poor year with the average decline being 76% from the cumulative mean. The only exception to the yearly trend was the woodland section 2 of Ryton Wood East. This section around the ponds area has recently had large scale blackthorn coppicing. Only section C1 of Ryton Wood Meadows recorded relatively high numbers of 23.

Essex Skipper

Historically Recorded in 5 Sections

2007 Performance Stable to Good Year

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
1	1		1	1			1

The Essex Skipper probably had a stable to good year. However it was difficult to assess the year accurately as only small numbers of Essex Skippers were seen on the transect. The small number of Small Skippers seen this year may have allowed for more Essex Skipper to be identified. Again the Essex Skipper was only recorded on Ryton Wood Meadows.

Large Skipper

Historically Recorded in 27 Sections

2007 Performance Stable Year

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
	2	3	2	7		4	9

Overall, a stable year for the Large Skipper. The butterfly did generally well in the open grassy areas of Ryton Wood Meadows and sections L, 2 and 4. It was generally stable in grassy areas that were extensively mown, namely, sections F and 8. The more narrow or shaded woodland areas did more poorly. Only Ryton Wood Meadow section C1 and C3 recorded Large Skippers in double figures.

Dingy Skipper

Historically Recorded in 5 Sections

2007 Performance Exceptional Year

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
	3			1			1

Though not as good as 2006, this year was another exceptional year and the second best recorded. The butterfly appears to be continuing to spread to new areas of Ryton Wood Meadows. The Dingy Skipper was recorded in double figures on section C1 and the species transect on Ryton Wood Meadows.

Grizzled Skipper

Historically Recorded in 9 Sections

2007 Performance Exceptional Year

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
3	1		1				4

Though still absent from Ryton Wood the Grizzled Skipper appears to be spreading in Ryton Wood Meadows and increasing in abundance. Equally the best year on record and an exceptional year. The Grizzled Skipper responded well to the creation of a low lying dry stone wall which runs through high densities of its foodplant, Creeping Cinquefoil. This year 40 eggs were located during a search. The wall has since been enhanced and expanded. Therefore it is anticipated and hoped that the Grizzled Skipper will have its best year on record next year.

Wood White

Historically Recorded in 16 Sections

2007 Performance Very Poor Year

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
							16

Following last year's disastrous year, this year was even worse, with no Wood Whites being recorded on the transects. Fortunately the butterfly was seen on non transect days. The butterfly appears to be doing badly at other locations nationally. It is hoped the last two poor years will be reversed and the Wood White will increase again.

Clouded Yellow

Historically Recorded in 5 Sections

2007 Performance Exceptional Year

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
	1			2			2

This was equally the third best year on record which was surprising considering that this year was generally poor for migrants from the south. The Ryton performance was probably not a true reflection of the year in general. Ryton appears to have benefited from the fact that the poor weather encouraged the Clouded Yellows to stay on Ryton Wood Meadows rather than dispersing to the wider countryside.

Brimstone

Historically Recorded in 29 Sections

2007 Performance Good to Very Good Year

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
	4	4	1	8	2	2	8

The Brimstone appears to have a good to very good year. In recent years the Brimstone appears to have increased in abundance. This upward trend in abundance in part is likely to have been influenced by a deliberate policy to increase the number of Buckthorn bushes suitable for egg laying on both nature reserves.

Large White

Historically Recorded in all 30 Sections

2007 Performance Very Poor Year

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
	3	1		7	3	7	9

The Large White had a very poor year generally and only some of those sections that have had recent management had a slightly better year. No section recorded the butterfly in large or even double figures.

Small White

Historically Recorded in 28 Sections

2007 Performance Very Poor Year

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
	2			1	3	3	19

This year was a very poor year for the Small White. Migrations from the continent appear to have been very weak. Each year the numbers of Small White seen on both nature reserves are reliant on those coming to the area to use its nectar resources. The only larval foodplant on the reserves is wild horse radish which is not common.

Green-veined White

Historically Recorded in all 30 Sections

2007 Performance Stable Year

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
	3	5	1	11	4	6	

Overall the Green-veined White had a stable year. In one of the more open areas of Ryton Wood Meadows it had one of its best years. It was again recorded in all 30 monitored sections. Section 4 of Ryton Wood East (the meadows) and section F (the main ride north) of Ryton Wood and Pools recorded over 50 individuals.

Orange Tip

Historically Recorded in 24 Sections

2007 Performance Stable to Poor Year

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
	1		1	8	1	1	12

Generally, the Orange Tip did poorly in Ryton Wood and well on Ryton Wood Meadows. Ryton Wood East had its poorest year on record. No section recorded the Orange Tip in double figures.

Green Hairstreak

Historically Recorded in 11 Sections

2007 Performance Exceptional Year

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
	2	3					6

Another exceptional year for the Green Hairstreak, the best year on record and this year Ryton's butterfly of the year. Though no Green Hairstreaks were recorded in Ryton Wood there is evidence that the Green Hairstreak is spreading from Ryton Wood Meadows into two areas of Ryton Pools Country Park. Section C1 of Ryton Wood Meadows recorded 75 individuals. These individuals were mainly seen along the sports field hedge.

Brown Hairstreak

Historically Recorded 0 Sections

2007 Performance Unknown (Egg search not carried out)

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent

The Brown Hairstreak has never been recorded as an adult on any of the transects. Brown Hairstreak eggs have been located in nearby farmland. In previous years the majority of the hedgerows were heavily flailed and other areas were badly neglected. For the last 2 years, Brown Hairstreak eggs have been searched for but not in a systematic way. 10 eggs were located in 2004 and 2 in 2005 which indicates an 80% decline. This is probably related to the extensive flaying and a less intensive search in 2005. No searches were carried out in 2006 or 2007. Searches will resume in 2008.

Purple Hairstreak

Historically Recorded in 22 transect Sections and 8 Hairstreak transect sections

2007 Performance Very Poor Year

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
	3			1	2		16
					1	7	

Traditional transect and species Hairstreak monitoring both indicated that the Purple Hairstreak had a very poor year. The average hairstreak monitoring decline was 66%. There is some anecdotal evidence that the Purple Hairstreak may have been more elusive than rare this year. Observations of tree top activity indicate that the Purple Hairstreak was not as active flying due to the cooler summer.

White-letter Hairstreak

Historically Recorded in 2 transect Sections and 1 Hairstreak transect section

2007 Performance Very Good Year

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
		1					1
		1					

Traditional transect and Hairstreak monitoring both indicate that the White-letter Hairstreak had a very good year. The Hairstreak monitoring had its 4th equal best year and traditional monitoring its 5th best year.

Small Copper

Historically Recorded in 17 Sections

2007 Performance Very Poor Year

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
							17

For the sixth year since transect monitoring began the Small Copper was not recorded on any transect. In 6 out of the last 9 years the Small Copper has failed to be recorded on any transect. The Small Copper was however recorded on a minimum of 3 occasions on Ryton Wood Meadows on non transect days. Overall a very poor year and the species appears to be in decline.

Brown Argus

Historically Recorded in 15 Sections

2007 Performance Stable Year

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
	2			3	1		9

The Brown Argus probably had a stable year despite it being absent from 9 sections. On Ryton Wood Meadows it recorded its third best year it was also record from section L (Police College glade) of Ryton Wood North. The species appears to benefit from the continuing selective sowing of Cut-leaved and Dovesfoot Cranesbill. The continuing improvements in the habitat for the Brown Argus probably stopped it having a poor year due to the poor summer weather. Recent mowing at Ryton Wood Meadows may also be making more Cranesbill available for egg laying.

Common Blue

Historically Recorded in 20 Sections

2007 Performance Poor to Very Poor Year

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
					1	5	14

The Common Blue had a very poor year. It was absent from all but one woodland section, section L (Police College glade) Ryton Wood North and had its worst year ever on Ryton Wood Meadows in spite of there being more suitable habitat available than ever before. Habitat improvements have occurred through a combination of seeding and mowing.

Holly Blue

Historically Recorded in 21 Sections

2007 Performance Poor to Stable Year

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
	3	1		3			14

In the spring the Holly Blue appeared to be heading for a good year. However, the poor summer weather appeared to put a brake on the Holly Blue's performance. Only Ryton Wood North had a good (Exceptional) year. This performance was solely attributed to the spring performance no summer adults were recorded.

White Admiral

Historically Recorded in 27 Sections
2007 Performance Stable to Poor Year

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
	2	3		7	6	1	8

The White Admiral numbers built up quickly this year and the White Admiral appeared to be heading for another good year. However poor weather in July caused adult numbers to fall quickly. This quick fall in numbers also appeared to affect the breeding success of the White Admiral with few eggs and larvae being located. With 41 White Admirals being recorded on the transect, the year was overall Stable.

Purple Emperor

Historically Recorded in 2 transect Sections and at 4 male congregation areas
2007 Performance Stable to Poor Year

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
							2
				1	2		1

The Purple Emperor is another canopy species which cannot be accurately monitored by traditional transect methods. The Purple Emperor has now been monitored for three years by carrying out time counts at the four identified male congregation areas. This year, believed due to lower summer temperatures, the Purple Emperor males appeared more elusive which may account for the poorer performance.

Red Admiral

Historically Recorded in 28 Sections
2007 Performance Very Good Year

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
1	5	7	2	4	2		7

Despite being a generally poor year for migrants, the Red Admiral had a very good year. In four out of the five transects it had one of its best 5 years. The Red Admiral was recorded throughout the year which indicates that there was either early migrations from the continent, a very successful adult over winter or, more likely, a combination of both.

Painted Lady

Historically Recorded in 24 Sections
2007 Performance Very Poor Year

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
			1		2	1	20

The Painted Lady had a very poor year, being absent from 83% of the sections it has historically been recorded in. The Painted Lady mirrored the season that most migrants had this year. Only one individual was recorded from Ryton Wood.

Small Tortoiseshell

Historically Recorded in 19 Sections

2007 Performance Poor Year

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
			1	2	1	2	13

There are signs that the Small Tortoiseshell is starting to recover. Only one individual was recorded from the Ryton Wood transects during this years transect monitoring and it had its 8th best year on record on Ryton Wood Meadows. There is anecdotal evidence that the Small Tortoiseshell is starting to adapt to the newly arrived parasite from the continent. There is some evidence that it is laying predominantly smaller batches of eggs.

Peacock

Historically Recorded 30 Sections

2007 Performance Very Good to Exceptional Year

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
	9	4	4	5	3	5	

The Peacock recorded its 4th highest year when all transects are added together. The Peacock had a very good spring and had the highest number of larval nests recorded. If the summer had been warmer this no doubt would have been the best year ever for the Peacock. Sections C1, C3, C4 of Ryton Wood Meadows, section 4 of Ryton Wood East and section F of Ryton Wood and Pools all recorded over 30 individuals.

Comma

Historically Recorded in 29 Sections

2007 Performance Stable Year

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
	1	4		9		4	11

The year started well for the Comma but the performance in the summer and autumn was poor making it overall a stable year. Only section 4 (meadows) of Ryton Wood East recorded double figures for the Comma.

Small Pearl-bordered Fritillary

Historically Recorded 5 Sections

2007 Performance Extinct

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
							5

The Small Pearl-bordered Fritillary has been extinct since 1997 following its planned introduction in 1995.

Pearl-bordered Fritillary

Historically Recorded 1 Section

2007 Performance Extinct

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
							1

The Pearl-bordered Fritillary has been extinct since 1999 following its unofficial release in 1997

Dark Green Fritillary

Historically Recorded 1 Section

2007 Performance Not Resident

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
							1

The Dark Green Fritillary is not a resident butterfly. A vagrant was recorded in 2004, it appears to have bred because a further individual was seen in 2005. Previously a vagrant was also recorded in 1985.

Silver-washed Fritillary

Historically Recorded 24 Sections

2006 Performance Good Year

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
	7	2	1	2	1		11

The Silver-washed Fritillary had a very good year with 62 adults being recorded on all transects. This year was the Silver-washed Fritillary second best year on record. The Silver-washed Fritillary also seemed to cope better than most species with the poor summer. The Silver-washed Fritillary had an extended flight period lasting 9 weeks. Section 28 of Ryton Wood West and section 8 of Ryton Wood East recorded 10 individuals each.

Speckled Wood

Historically Recorded in 26 Sections

2007 Performance Poor Year

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
	3	2	2	5	9	4	1

The Speckled Wood had a poor year, one of its worst years on record. The poor performance appears due to the poor late summer performance. Section J of Ryton Wood North, section 3 of Ryton Wood East sections 14 and 28 of Ryton Wood West and sections D, E and F of Ryton Wood and Pools all recorded the Speckled Wood in double figures.

Wall

Historically Recorded in 2 Sections
2007 Performance Extinct

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
							2

The Wall is extinct in this area, the last Wall being seen in 1998. The extinction is part of a regional contraction in range and is believed related to climate change though the exact reason is unknown.

Marbled White

Historically Recorded in 13 Sections
2007 Performance Good to Very Good Year

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
	1	2	1	1	1	1	6

The Marbled White had a good to very good year compared to its cumulative mean. However, numbers when compared to recent years fell back to 2004 levels. This was probably related to the poor summer weather. Only sections C1 and C3 of Ryton Wood Meadows recorded the Marbled White in double figures.

Gatekeeper

Historically Recorded in 29 Sections
2007 Performance Poor to Very Poor Year

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
	2		1	5	6	7	8

Probably a poor to very poor year. The Gatekeeper did better in narrow rides that have recently had their edges coppiced e.g. section 25, 28 and section 2. The Gatekeeper also appeared to slightly less poorly in grassy open areas e.g. all 6 Ryton Wood Meadows sections and section L. Only sections C1, C2 and C4 of Ryton Wood Meadows, section 2 of Ryton Wood East and section 28 of Ryton Wood West recorded over 20 individuals.

Meadow Brown

Historically Recorded in all 30 Sections
2007 Performance Poor to Very Poor Year

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
	3		1	1	14	11	

The Meadow Brown had a poor year and generally its poorest since 1997. Only those areas of Ryton Wood West that have had extensive ride widening had good years. Sections C1, C2, C3 and C4 of Ryton Wood Meadows, section L (Police College glade) of Ryton Wood North, section 4 (meadows) Ryton Wood East and section F (main ride north) of Ryton Wood and Pools recorded over 50 individuals.

Small Heath

Historically Recorded in 10 Sections

2007 Performance Stable Year

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
	2		1	2	2		3

The Small Heath had a better than expected year with total numbers being the second highest on record. The Small Heath had a very good spring. The last 5 years have been better than average for the Small Heath. This improvement may be due in part to mowing of the paths on Ryton Wood Meadows followed by rabbit grazing.

Ringlet

Historically Recorded in all 30 Sections

2007 Performance Stable to Good Year

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
	4	3	6	6	5	4	2

The Ringlet generally had a stable year. Numbers are still increasing on Ryton Wood Meadows as grass cover increases. Those areas of Ryton Wood that have recently received extensive ride or edge management also showed increases e.g. section 2, 25, and 28. Only sections C1, C3 and C4 of Ryton Wood Meadows, section 2 (pools), 4 (meadows) and section 8 (main ride south) of Ryton Wood East and section F (main ride north) of Ryton Wood and Pools recorded over 50 individuals.

Six-spot Burnet

Historically Recorded and monitored in 6 Sections

2007 Performance Very Poor Year

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
		1			1	2	2

For the second year running the Six-spot Burnet had a very poor year. This was the worst year recorded since 2002.

Narrow-bordered 5 Spot Burnet

Historically Recorded and monitored in 6 Sections

2007 Performance Very Poor Year

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
						4	2

Overall a very poor year for the Narrow-bordered 5 Spot Burnet. This was one of the poorest years in recent times, the worst since 2002.

Chimney Sweeper

Historically Recorded and monitored in 1 Sections

2007 Performance Not Resident

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
							1

The Chimney Sweeper moth has not been seen since 1996. The one individual was probably a vagrant from Ryton Wood.

Lattice Heath

Historically Recorded and monitored in 5 Sections
2007 Performance Very Poor Year

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
					1		4

A very poor year for the Latticed Heath and one of its worst on record.

Cinnabar

Historically Recorded and monitored in 6 Sections
2007 Performance Stable to Poor Year

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
				2	3		1

Large scale Ragwort removal was again undertaken this year with an estimated 150,000 Ragwort plants being removed. Despite this the Cinnabar had a stable to poor year.

Silver Y

Historically Recorded and monitored in 6 Sections
2007 Performance Exceptional Year

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
			1	1		3	1

In a generally poor year for migrants the Silver Y had a very poor year.

Mother Shipton

Historically Recorded and monitored in 3 Sections
2007 Performance Stable Year

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
	1			1			1

Probably Ryton's rarest day flying moth with only 2 or 3 ever being seen in any individual year. Though difficult to assess, probably a stable year.

Burnet Companion

Historically Recorded and monitored in 6 Sections
2007 Performance Stable to Poor Year

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
		2		3			1

Though the worst year since 2002, probably overall a stable year.

Humming-bird Hawk Moth

Historically Recorded and monitored in 2 Sections

2007 Performance Absent

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
							2

No Hummingbird Hawk Moths were seen this year, in a year where migrants were generally scarce.

Ryton Wood Meadows Year 18

Overall Transect Summary

Total Butterflies numbers seen in 2007

2007	2006	Total	Mean	Change	Comment
1717	2153	24,797	1,378	> 25%	Good

Comparative Butterfly Data

Year	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990
Number	1357	1092	860	1141	770	728	476	1106	293	700
Year			2007	2006	2005	2004	2003	2002	2001	2000
Number			1717	2151	2173	2221	3136	1133	769	2204

Historically 33 Species have been recorded on the 6 Sections

Species Performance Summary

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
	14	6	2	1	4	2	4

Total Moths numbers seen in 2007

2007	2006	Total	Mean	Change	Comment
83	394	2567	151	< 45%	Poor

Comparative Moth Data

Year	2000	1999	1998	1997	1996	1995	1994	1993	1992	1991
Number	183	84	101	37	87	21	27	21	13	9
Year				2007	2006	2005	2004	2003	2002	2001
Number				83	394	553	502	363	34	55

Historically 9 Species have been recorded in the 6 Sections

Species Performance Summary

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
	1	1		1	2	2	2

Overall Summary

Despite the generally poor summer weather and overall poor butterfly year, Ryton Wood Meadows remains the richest of the areas monitored for butterflies and day flying moths. Ryton Wood Meadows recorded more butterflies than the other four transects and was also the most diverse with 29 species being recorded this year. This year was the second most improved transect with a general 25% increase in numbers from its cumulative mean, it was the 6th best year for total numbers seen.

Section C1 – Ryton Old Landfill Area (closed completely 1995)

Total Butterflies numbers seen in 2007

2007	2006	Total	Mean	Change	Comment
745	1028	17005	945	< 21%	Poor

Comparative Butterfly Data

Year	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990
Number	1260	1120	901	1147	774	729	493	1106	293	680
% of Total	52.2	44.7	36.5	35.3	24.2	26.6	22.6	23.1	12.1	31.5
Year			2007	2006	2005	2004	2003	2002	2001	2000
Number			745	1028	896	979	1465	1032	737	1620
% of Total			43.4	47.7	39.6	39.1	54.0	43.1	46.9	53.9

Historically 32 Species have been recorded in this Section

Species Performance Summary

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
	5	3	6	6		8	4

Total Moths numbers seen in 2007

2007	2006	Total	Mean	Change	Comment
31	171	1044	61	< 49%	Poor

Comparative Moth Data

Year	2000	1999	1998	1997	1996	1995	1994	1993	1992	1991
Number	58	70	101	37	87	21	27	21	13	9
% of Total	31.7	83.3	100	100	100	100	100	100	100	100
Year				2007	2006	2005	2004	2003	2002	2001
Number				31	171	166	77	89	27	39
% of Total				37.4	43.4	30.0	15.3	24.5	79.4	70.9

Historically 8 Species have been recorded on this Section

Species Performance Summary

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
		2			2	2	2

Past Major Events

1990/91	Large area levelled. Forty plus buddleia bushes were destroyed.
1993/94	A sixth of the area was levelled and the drainage ditch next to the wood cleared.
1995	Landfill site closed.
1996/97	A third of the transect area was seeded with wildflower mix.
1999	One small area north west cut and cuttings removed.
2000/04	A network of 3m paths cut through this area, cuttings removed and composted.
2003	Seven plots cut and raked in June cuttings removed.
2004	Area of willows coppiced between section 1 and section 39.
2005	Two-thirds of section 2 mown and cuttings removed Sept 2005.
2006	One-third section 2 by section 1 and 5 and one-third section 1 mown. Cuttings removed 21 July 2006.
2007	Southern half of C1 mown. Area of willows coppiced between section 1 and section 39. Also, areas of ragwort, thistle and bramble were sprayed out.

Overall Summary

Despite overall numbers only being the 13th best year, this section still remains the area where highest number of butterflies are seen. This area was also the most diverse with 28 species being recorded. This section was the 5th most improved area when compared to its cumulative mean. The ranker areas of this section were heavily mown. Also areas of Ragwort, thistle and bramble were sprayed out. This intensive management might account for recent improvements.

Section C2 Ryton Old Landfill Area (closed completely 1995)

Total butterflies numbers seen in 2007

2007	2006	Total	Mean	Change	Comment
213	270	3113	346	< 38%	Poor

Comparative Butterfly Data Ryton Wood Landfill

Year	2007	2006	2005	2004	2003	2002	2001	2000	1999
Number	213	270	381	360	536	236	117	672	330
% of Total	12.4	12.6	16.9	16.1	26.8	18.6	13.7	29.3	20.7

Historically 25 Species have been recorded in this Section

Species Performance Summary

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
1	6	2	1	5	4	2	4

Total moths numbers seen in 2007

2007	2006	Total	Mean	Change	Comment
31	109	767	85	> 64%	Very Poor

Comparative Moth Data Ryton Wood Landfill

Year	2007	2006	2005	2004	2003	2002	2001	2000	1999
Number	31	109	268	145	52	7	16	125	14
% of Total	37.4	27.7	48.5	28.9	14.3	20.6	29.1	68.3	16.7

Historically 8 Species have been recorded on this Section

Species Performance Summary

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
			1	3	1	1	2

Overall Summary

Surprisingly this section had its worst year since 2002 it was also only the 21st most improved. The remaining invading Ragwort and thistles were once again removed. The low dry stone wall was extended to 156 metres. Despite the poor year it remains the 3rd most diverse section with 21 species being recorded and the area where the 7th highest number of butterflies were seen.

Past Major Events

1990/91	Large area levelled. Forty plus buddleia bushes were destroyed.
1993/94	A sixth of the area was levelled.
1995	Landfill site closed.
1996/97	90% of the transect area was seeded with wildflower mix.
1998	All sycamores in hedgerow felled and poisoned.
2000/04	A network of 3m paths cut through this area (quarter of landfill site) cuttings removed and composted.
2003	Three plots cut and raked in June cuttings removed.
2004	Devilsbit Scabious plugs planted by road.
2005	Two-thirds of section 2 mown; cuttings removed in Sept 2005. Invading ragwort and thistles removed.
2006	One-third section 2 mown by section 5 & 1; cuttings removed. Invading ragwort, thistles and invading willow seedling removed. Low dry stone wall created approximately 100 metres.
2007	Dry stone wall extended to 156 metres. Invading ragwort and thistles removed.

Section C3 – Ryton Old Landfill Area (closed completely 1995)

Total butterflies numbers seen in 2007

2007	2006	Total	Mean	Change	Comment
258	356	1517	303	< 15%	Stable

Comparative Butterfly Data

Year						2007	2006	2005	2004	2003
Number						258	356	318	288	299
% of Total						15.0	16.5	14.1	12.8	9.2

Historically 25 Species have been recorded in this Section

Species Performance Summary

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
1	2	1	4	3	2	4	8

Total moths numbers seen in 2007

2007	2006	Total	Mean	Change	Comment
1	17	87	17	< 94%	Very Poor

Comparative Moth Data

Year						2007	2006	2005	2004	2003
Number						1	17	25	25	19
% of Total						1.2	4.3	4.5	5.0	5.2

Historically 6 Species have been recorded on this Section

Species Performance Summary

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
					1		5

Overall Summary

This section has its worst year on record with regards to overall numbers recorded. Despite this it still recorded the 6th highest number of butterflies and was the 5th most diverse area with 17 species being recorded. With regards to variation against its cumulative mean it was the 15th most improved. Some areas are being invaded by Teasel to the detriment of the herb rich grassland. The removal of Teasel during flowering may have affected total number of butterflies seen.

Past Major Events

1995	Landfill site closed.
2001	Whole area levelled and left fallow.
2002	Greater Birdsfoot Trefoil and Devils Bit Scabious scattered on fallow areas.
2003/04	A network of 3m wide paths cut through this area, cuttings removed and composted.
2004	Blackthorn whips and Devilsbit Scabious planted along wood edge.
2005	Docks treated in adjacent section 5.
2006	Adjacent section 5 mown 21/7/06, cuttings removed all Ragwort and Teasel removed.
2007	Adjacent section 5 mown; all Ragwort and Teasel removed.

Section C4 – Ryton Old Landfill Area (closed completely 1995)

Total butterflies numbers seen in 2007

2007	2006	Total	Mean	Change	Comment
317	297	1644	329	< 4%	Stable

Comparative Butterfly Data

Year					2007	2006	2005	2004	2003
Number					317	297	342	261	427
% of Total					18.5	13.8	15.1	11.6	13.2

Historically 28 Species have been recorded in this Section

Species Performance Summary

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
1	3	4	2	7	5	1	5

Total moths numbers seen in 2007

2007	2006	Total	Mean	Change	Comment
11	58	326	65	< 83%	Very Poor

Comparative Moth Data

Year					2007	2006	2005	2004	2003
Number					11	58	36	128	36
% of Total					13.2	14.7	6.7	25.5	25.4

Historically 6 Species have been recorded on this Section

Species Performance Summary

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
	1	1				3	1

Overall Summary

This section is suffering from bramble, Ragwort and Teasel encroachment and as a result it was the 11th most improved area. Generally herb rich areas are showing signs of becoming rank. Despite this it recorded the third highest number of butterflies and was the second most diverse area with 23 species being recorded.

Past Major Events.

1995	Landfill site closed.
1996/97	A third of the transect area was seeded with wildflower.
1999	A third of area levelled and left fallow.
2003/04	A network of 3m wide paths cut through this area. Cuttings removed and composted.
2004	Blackthorn whips and Devilsbit Scabious plugs planted along wood edge.
2005	Adjacent section 5 docks treated.
2006	Adjacent section 5 mown cuttings removed all Ragwort and Teasel removed.
2007	Path cut; adjacent area of section 5 cut. Teasel and Ragwort removed from path.

Section C5 – Ryton Old Landfill Area (closed completely 1995)

Total butterflies numbers seen in 2007

2007	2006	Total	Mean	Change	Comment
111	97	839	168	< 34%	Poor

Comparative Butterfly Data

Year						2007	2006	2005	2004	2003
Number						111	97	186	213	232
% of Total						6.5	4.5	8.2	9.5	7.2

Historically 21 Species have been recorded in this Section

Species Performance Summary

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
2	2	1	1	2	4	4	5

Total moths numbers seen in 2007

2007	2006	Total	Mean	Change	Comment
5	15	68	14	< 64%	Very Poor

Comparative Moth Data

Year						2007	2006	2005	2004	2003
Number						5	15	22	14	12
% of Total						6.0	3.8	4.0	2.8	3.3

Historically 7 Species have been recorded on this Section

Species Performance Summary

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
				2	1	1	3

Overall Summary

This is generally a very rank, herb poor area. Docks and Ragwort are being removed and bare areas are being seeded with Birdsfoot Trefoil. This section is dominated by thistles and rank course grasses. It is planned to control the thistle, introduce grazing and seed the area with a wild flower mix. This year it was the 13th area for butterfly numbers and the 9th equal area for diversity with 15 species being recorded. This was the 20th most improved section.

Past Major Events.

1995	Landfill site closed.
1996/97	A third of the transect area was seeded with wildflower.
2001	A third of area levelled and left fallow.
2003/04	A network of 3m wide paths cut through this area. Cuttings removed and composted.
2004	Cattle and sheep fencing erected ½ field boundary.
2005	Docks treated.
2006	Areas mown cuttings removed all Ragwort and Teasel removed.
2007	Upper central meadow mown. Area seeded with Birdsfoot Trefoil, Dovesfoot Cranesbill, Salad Burnet, Sweet Violet and Yellow Rattle. Fifty plugs of Sorrel, Red Clover, Dog Violet and Devils Bit Scabious planted. 200 Birdsfoot Trefoil plugs planted. All Ragwort and Teasel removed.

Section C6 – Ryton Old Landfill Area (closed completely 1995)

Total butterflies numbers seen in 2007

2007	2006	Total	Mean	Change	Comment
73	105	737	147	< 50%	Poor

Comparative Butterfly Data

Year						2007	2006	2005	2004	2003
Number						73	105	138	138	283
% of Total						4.2	4.9	6.1	6.2	8.7

Historically 20 Species have been recorded in this Section

Species Performance Summary

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
	3	1		4	2	4	6

Total moths numbers seen in 2007

2007	2006	Total	Mean	Change	Comment
4	24	275	55	< 93%	Very Poor

Comparative Moth Data

Year						2007	2006	2005	2004	2003
Number						4	24	35	113	99
% of Total						4.8	6.1	6.3	22.5	27.3

Historically 6 Species have been recorded on this Section

Species Performance Summary

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
				2		2	2

Overall Summary

The area has been invaded by thistles and Ragwort and there are large areas of rank coarse grassland. As a consequence this was the 25th most improved section. The section is the highest part of the old landfill. This section appears to be declining relative to other sections. It was the section with the 18th highest number of butterflies and the 14th most diverse.

Past Major Events.

1995	Landfill site closed.
1996/97	A third of the transect area was seeded with wildflower.
2001	A third of area levelled and left fallow.
2003/04	A network of 3m wide paths cut through this area. Cuttings removed and composted.
2004	Cattle and sheep fencing erected ¼ field boundary.
2005	Adjacent section 5, docks treated.
2006	Adjacent section 5 mown; cuttings removed. Ragwort was removed.
2007	Adjacent section 5 mown; cuttings removed. Ragwort and teasel removed.

Ryton Wood Year 18

All Sections Ryton Wood and Pool

Total numbers seen in 2007

2007	2006	Total	Mean	Change	Comment
545	593	18,230	1013	< 46%	Poor

Comparative Data

Year	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990
Number	958	818	851	1374	1385	1124	840	2204	1375	1028
Year			2007	2006	2005	2004	2003	2002	2001	2000
Number			545	593	592	917	1068	894	633	1031

Historically 30 Species have been recorded on this transect

Species Performance Summary

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
				3	6	8	13

Purple Hairstreak Walk

2007	2006	Total	Mean	Change	Comment
87	204	5356	398	< 71%	Very Poor

Comparative Purple Hairstreak Walk Data

Year	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990
Number	295	213	405	278	576	331	308	322	206	92
Year			2007	2006	2005	2004	2003	2002	2001	2000
Number			87	204	215	608	180	471	210	355

Historically Species have been recorded in this Section

Species Performance Summary

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
						5	

Overall Summary

Management has only recently occurred in 2 out of the 5 sections. Therefore this transects habitat is declining relative to other areas of the wood. This transect had the third highest number of butterflies but was only the 4th most diverse with only 17 species being recorded. It was the fifth worst performing transect declining against its cumulative mean making it the worst year on record for this transect.

Section D – Ryton Wood Ride 22 (Old Conveyor Belt Ride)

Total butterfly numbers seen in 2007

2006	2005	Total	Mean	Change	Comment
113	127	5289	294	< 62%	Very Poor

Comparative Data

Year	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990
Number	210	173	199	365	438	368	215	760	593	335
% of Total	21.9	21.1	23.4	26.6	31.6	32.7	25.6	34.5	43.1	32.7
Year			2007	2006	2005	2004	2003	2002	2001	2000
Number			113	127	146	182	287	264	172	342
% of Total			20.8	21.4	24.7	19.9	26.9	29.5	27.2	33.2

Historically 28 Species have been recorded in this Section

Species Performance Summary

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
				2	3	6	17

Total Purple Hairstreaks numbers seen in 2007

2007	2006	Total	Mean	Change	Comment
17	26	1193	66	< 74%	Very Poor

Comparative Purple Hairstreak Data

Year	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990
Number	56	26	68	68	137	47	53	94	83	16
% of Total	19.0	12.2	16.8	24.5	23.8	14.2	17.2	29.2	40.3	17.4
Year			2007	2006	2005	2004	2003	2002	2001	2000
Number			17	26	44	141	45	119	42	111
% of Total			19.5	12.7	20.5	23.2	25.0	25.4	20.0	31.3

Overall Summary

This ride has not been managed for 6 years. The coppiced edge is mostly sallows which have grown very quickly and is shaded the ride. This winter the ride will have part of its length coppiced again. Despite the shading this section recorded the 11th highest number of butterflies and was the 18th most diverse with 11 species being recorded. The ride declined by 62% against its cumulative mean and was the 28th worst performing ride making it the worst year on record for this section.

Past Major Events

1990/91	Southern ride edge coppiced.
1991/92	Two-thirds of northern edge coppiced in two scallops.
1992/93	Middle third of northern edge coppiced. Ride badly damaged by timber extraction. Ride levelled.
1991/92 & 1995/07	Ride was mown. Cuttings removed and composted.
1998	Third of southern edge re-coppiced.
1999	Quarter of southern edge re-coppiced.
2000	70 metres of northern edge re-coppiced near section E.
2001	100 metres of northern edge re-coppiced near section M.

Section E – Ryton Wood Ride 23A

Total numbers seen in 2007

2007	2006	Total	Mean	Change	Comment
35	60	1415	79	< 56%	Very Poor

Comparative Data

Year	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990
Number	94	86	74	88	127	87	54	140	55	38
% of Total	9.8	10.6	8.7	6.4	9.2	7.7	6.4	6.3	4.0	3.7
Year			2007	2006	2005	2004	2003	2002	2001	2000
Number			35	60	59	74	84	109	68	83
% of Total			6.4	10.1	10.0	8.1	7.9	12.2	10.7	8.0

Historically 20 Species have been recorded in this Section

Species Performance Summary

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
				2	2	3	13

Total Purple Hairstreaks numbers seen in 2007

2007	2006	Total	Mean	Change	Comment
18	39	863	48	< 63%	Very Poor

Comparative Purple Hairstreak Data

Year	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990
Number	76	44	63	34	69	96	55	52	21	10
% of Total	25.8	20.7	15.6	12.2	12.0	29.0	17.9	16.2	10.2	10.9
Year			2007	2006	2005	2004	2003	2002	2001	2000
Number			18	39	27	87	18	79	39	36
% of Total			20.7	19.1	12.5	14.3	10.0	16.5	18.6	10.1

Overall Summary

Traditionally this narrow ride is the poorest section in the Ryton Wood and Pool transect. This transect has declined relative to other parts of Ryton Wood since last substantial management was under taken in 2002. A further large section this ride should be recoppiced this winter. This year it was the 26th poorest section with regard to overall numbers, the second poorest with regards to diversity with only 7 species being recorded. The ride declined overall by 56% against its cumulative mean. This was the worst year on record.

Past Major Events

1990/91	Ride edge understorey coppiced.
1991/92	Standards thinned.
1992/93	Rutting caused by timber extraction.
1995/07	Ride mown each year and cuttings raked. Cuttings composted from 2000.
2001	Overhanging branches and some coppice cut back on eastern edge.
2006	Area coppice from ride 24 to 1 A.

Section F – Ryton Wood Ride 1A (Main Ride North)

Total numbers seen in 2007

2007	2006	Total	Mean	Change	Comment
278	240	8096	450	< 38%	Poor

Comparative Data

Year	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990
Number	383	383	417	613	481	475	428	1065	648	618
% of Total	40.0	46.8	49.0	44.6	34.7	42.3	50.9	48.3	47.2	60.2
Year			2007	2006	2005	2004	2003	2002	2001	2000
Number			278	240	253	430	438	333	275	438
% of Total			51.2	40.5	42.7	46.9	41.0	37.2	43.4	42.5

Historically 28 Species have been recorded in this Section

Species Performance Summary

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
				5	5	6	12

Total Purple Hairstreaks numbers seen in 2007

2007	2006	Total	Mean	Change	Comment
26	84	1752	97	< 73%	Very Poor

Comparative Purple Hairstreak Data

Year	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990
Number	78	88	136	87	221	111	110	103	72	51
% of Total	26.4	41.3	33.6	31.3	38.4	33.5	35.7	32.0	34.9	55.4
Year			2007	2006	2005	2004	2003	2002	2001	2000
Number			26	84	64	207	41	111	72	90
% of Total			29.9	41.2	29.8	34.0	22.8	23.7	34.3	25.4

Overall Summary

The whole of the southern edge of this ride has now been coppiced. This section appears to be benefiting from this management. It had its best year since 2004 in total number of butterflies seen and its best year since 1990 where comparing the percentage of butterflies seen on the entire transect. The mowing regime for this ride was changed in 2004 to reverse the reduction in flora diversity. This ride recorded the 4th highest number of total butterflies and was 6th equal when comparing diversity with 16 species being recorded. Despite this, it declined by 38% against its cumulative mean, making it the 22nd worst performing section.

Past Major Events

1971	Ride widened when a gas pipeline was laid through the wood.
1988/91	Ride not mown.
1988/89	Three small scallops coppiced.
1990/91	One scallop coppiced.
1992/04	All of the east side and a third of the west side has been mown in rotation from this date. Cuttings cleared and composted.
1992/93	Box junction coppiced near H.
2003	Scallop coppiced south east of ride.
2004	3 Scallops cut south east ride edge.
2005	2 scallops cut south east ride edge.
2005/07	All of ride cut cuttings cleared and composted.
2006	1 scallop cut south eastern ride edge junction with 3A.

Section G – Ryton Wood Ride 24 (coppice area, first plot cut 1988/89)

Total numbers seen in 2007

2007	2006	Total	Mean	Change	Comment
48	68	1649	92	< 48%	Poor

Comparative Data

Year	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990
Number	169	98	73	152	155	72	62	165	35	3
% of Total	17.6	12.0	8.6	11.1	11.2	6.4	7.4	7.5	2.5	0.1
Year			2007	2006	2005	2004	2003	2002	2001	2000
Number			48	68	56	108	138	83	58	106
% of Total			8.9	11.5	9.4	11.8	12.9	9.3	9.2	10.3

Historically 24 Species have been recorded in this Section

Species Performance Summary

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
		2		4	2	2	14

Total Purple Hairstreaks numbers seen in 2007

2007	2006	Total	Mean	Change	Comment
10	25	587	33	< 70%	Very Poor

Comparative Purple Hairstreak Data

Year	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990
Number	37	14	54	30	74	46	23	24	15	4
% of Total	12.5	6.6	13.3	10.8	12.8	13.9	7.5	7.4	7.3	4.3
Year			2007	2006	2005	2004	2003	2002	2001	2000
Number			10	25	40	68	22	59	21	21
% of Total			11.5	12.3	18.6	11.2	12.2	12.5	10.0	5.9

Overall Summary

Three more plots were coppiced on the western side of the path through the coppice. This coppice area is not herb rich so 100 dog violets and 200 birds-foot trefoil plugs were planted in all recently coppiced areas. Further thinning of standards took place. It was disappointing that the ride didn't show a large improvement. It recorded the 23rd highest number of butterflies; it was 19th equal with regards to diversity with only 10 species being recorded. Overall it declined by 48% against its cumulative mean making it the 23rd best performing section.

Past Major Events

1988/89	Half hectare of coppice has been cut each year since 1988/89. First three plots were near to the G section of the transect route.
1990/91	First two coppice plots did not have standards thinned until 1990/91. Flight paths to E and F were cut.
1992/93	Flight path to H cut.
1995/99	Paths have been mown or cleared every year. Cuttings raked and composted from 1999.
1999/00	Path by H badly rutted by timber extraction.
2000/07	Path raked cuttings removed and composted but only near section E.
2004	2 coppice plots cut south west of ride 24.
2005	1 coppice plot cut north west of ride 24.
2006	3 coppice plots cut north west of ride 24 all the way to ride 23A

Section H – Ryton Wood Ride 19C

Total numbers seen in 2007

2007	2006	Total	Mean	Change	Comment
98	98	1608	95	> 3%	Stable

Comparative Data

Year	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990
Number	102	78	88	156	184	122	81	74	44	34
% of Total	10.7	9.5	10.3	11.3	13.3	10.9	9.7	3.4	3.2	3.3
Year			2007	2006	2005	2004	2003	2002	2001	2000
Number			69	98	78	121	121	105	60	62
% of Total			12.7	16.5	13.2	13.3	11.3	11.8	9.5	6.0

Historically 23 Species have been recorded in this Section

Species Performance Summary

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
		2	1	4	4	2	10

Total Purple Hairstreaks numbers seen in 2007

2007	2006	Total	Mean	Change	Comment
16	30	961	53	< 70%	Very Poor

Comparative Purple Hairstreak Data

Year	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990
Number	48	41	84	59	75	31	67	49	15	11
% of Total	16.3	19.2	20.7	21.2	13.0	9.4	21.7	15.2	7.3	12.0
Year			2007	2006	2005	2004	2003	2002	2001	2000
Number			16	30	40	105	54	103	36	97
% of Total			18.4	14.7	18.6	17.3	30	21.9	17.1	27.3

Overall Summary

This section is gradually declining as it is becoming more shaded following coppicing in 2002. It recorded the 19th highest number of butterflies and was the 14th equal with regards to diversity with 13 species being recorded. The section declined overall against its cumulative mean by 26% making it the 17th equal best performing section.

Past Major Events

1992/93	Ride widened. Box junction to F coppiced and a flight path to G and D created.
1993/94	Coppice plot cut to half of east side.
1994/95	Coppice plot cut on half of west side.
1995/98	Ride mown each year.
1998/99	Coppice plot cut halve of west side.
1999/07	Ride mown cuttings removed and composted.
2002	Coppice plot re-coppiced on east side near middle.

Ryton Wood North – 17th Year

Total numbers seen in 2007

2007	2006	Total	Mean	Change	Comment
404	394	7624	448	< 10%	Stable

Comparative Data

Year	2000	1999	1998	1997	1996	1995	1994	1993	1992	1991
Number	323	389	417	430	782	787	613	347	311	89
Year				2007	2006	2005	2004	2003	2002	2001
Number				404	394	412	491	599	505	331

Historically 32 Species have been recorded in this Transect

Species Performance Summary

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
1	3	5	2	5	4	3	9

Total Purple Hairstreaks numbers seen in 2007

2007	2006	Total	Mean	Change	Comment
40	74	1791	112	< 64%	Very Poor

Comparative Purple Hairstreak Data

Year	2001	2000	1999	1998	1997	1996	1995	1994	1993	1992
Number	56	125	59	97	133	100	152	166	123	49
Year					2007	2006	2005	2004	2003	2002
Number					40	74	66	262	47	242

Overall Summary

This transect is improving relative to other parts of the wood; all areas have been managed within the last 7 years. This transect recorded the fourth highest number of butterflies but was the second most diverse with 23 species being recorded, largely due to its proximity to Ryton Wood Meadows. It was the third most improving transect, only declining by 10% against its cumulative mean despite the poor weather.

Section I – Edge of Ryton Wood Ride 38

Total numbers seen in 2007

2007	2006	Total	Mean	Change	Comment
81	112	1523	90	< 10%	Stable

Comparative Data

Year	2000	1999	1998	1997	1996	1995	1994	1993	1992	1991
Number	85	92	105	85	167	135	101	61	14	8
% of Total	26.3	23.6	25.2	19.8	21.4	17.2	16.5	17.6	4.5	9.0
Year				2007	2006	2005	2004	2003	2002	2001
Number				81	112	85	81	125	120	66
% of Total				20.0	28.4	20.6	16.5	20.9	23.8	19.9

Historically 30 Species have been recorded in this Section

Species Performance Summary

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
1	3	4	2	4	1	3	12

Overall Summary

This was a poorer than expected year for this section equally its 5th worst on record it declined overall by 10% making it the 12th best performing section. This is despite the fact that all of the western edge has been coppiced in the last 3 years. Only 81 butterflies were recorded making it the 17th highest number of butterflies recorded. It was the 4th most diverse section with 18 species being recorded.

Past Major Events

1992/93	Ride damaged by timber extraction.
1996/07	Ride mown each year. Cuttings removed and composted from 2000.
2000	Half of ride edge re-coppiced near section D.
2001	Half of ride edge re-coppiced near ride 20.
2004	Sallows re-coppiced north west of ditch.
2006	Sallows coppiced north west of ditch near D section.

Section J – Ryton Wood Ride 23B (Weavers Ride)

Total numbers seen in 2007

2007	2006	Total	Mean	Change	Comment
33	33	1103	65	< 49%	Poor

Comparative Data

Year	2000	1999	1998	1997	1996	1995	1994	1993	1992	1991
Number	42	66	67	68	133	141	148	61	61	33
% of Total	13.0	17.0	16.1	15.8	17.0	17.9	24.2	17.6	19.6	37.1
Year				2007	2006	2005	2004	2003	2002	2001
Number				33	33	23	38	48	66	42
% of Total				8.2	5.8	5.6	7.7	8.0	13.1	12.7

Historically 21 Species have been recorded in this Section

Species Performance Summary

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
				5		3	13

Total Purple Hairstreaks numbers seen in 2007

2007	2006	Total	Mean	Change	Comment
9	21	803	50	< 82%	Very Poor

Comparative Purple Hairstreak Data

Year	2001	2000	1999	1998	1997	1996	1995	1994	1993	1992
Number	26	36	27	57	85	54	80	91	45	21
% of Total	46.4	28.8	45.8	58.8	63.9	54.0	52.6	54.8	36.6	42.8
Year					2007	2006	2005	2004	2003	2002
Number					9	21	21	99	26	105
% of Total					22.5	28.4	31.8	37.8	55.3	43.4

Overall Summary

This section appears to be gradually improving and may now be starting to benefit from recent management. This may be in part caused by the fact that the two nearest sections also under performing. It only recorded 33 butterflies making it the 27th highest out of 30 sections. Only 8 species were recorded making it not very diverse equal 27th overall. It declined by 49% against its cumulative mean making it the 24th poorest performing section.

Past Major Events

1991/92	West side of ride coppiced.
1992/93	Standards thinned.
1995/07	Ride has been mown and cuttings cleared and composted each year.
2005	Third of west side re-coppiced near K.
2006	Third of west side re-coppiced in centre of section.

Section K – Ryton Wood Ride 21 (Police College Ride)

Total numbers seen in 2007

2007	2006	Total	Mean	Change	Comment
67	33	1225	72	< 7%	Stable

Comparative Data

Year	2000	1999	1998	1997	1996	1995	1994	1993	1992	1991
Number	35	70	67	74	173	155	97	68	15	3
% of Total	10.8	18.0	16.1	17.2	22.1	19.7	15.8	19.6	4.8	3.4
Year			2007		2006	2005	2004	2003	2002	2001
Number			67		59	67	72	77	94	32
% of Total			16.6		15.0	16.3	14.7	12.8	18.6	9.7

Historically 24 Species have been recorded in this Section

Species Performance Summary

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
1	2	3		4	3	1	10

Total Purple Hairstreaks numbers seen in 2007

2007	2006	Total	Mean	Change	Comment
12	26	454	28	< 57%	Very Poor

Comparative Purple Hairstreak Data

Year	2001	2000	1999	1998	1997	1996	1995	1994	1993	1992
Number	16	50	15	14	20	15	22	34	38	9
% of Total	28.6	40.0	25.4	14.4	15.0	15.0	14.5	20.5	30.9	18.4
Year			2007		2006	2005	2004	2003	2002	
Number			12		26	18	80	10	75	
% of Total			30.0		35.1	27.3	30.5	21.3	31.0	

Overall Summary

The coppiced area of this section is north facing and in this generally poor butterfly year it doesn't seem to have benefited from this area being coppiced 3 or 4 years ago. The ride declined by 75% against its cumulative mean making it the worst performing section. Only 67 butterflies were recorded the 20th highest. Only 14 species were recorded making it the 12th highest equally with regards to diversity

Past Major Events

1991/92	South side of ride coppiced.
1992/93	Standards thinned.
1995/07	Ride has been mown and cuttings cleared and composted each year.
2001	Dutch Elm has returned to the wood.
2003	Scallop cut near L on south west of ride Some elm layered.
2004	Scallop cut near south east near J.

Section L – Ryton Wood (Police College Glade)

Total numbers seen in 2007

2007	2006	Total	Mean	Change	Comment
135	91	2355	138	< 2%	Stable

Comparative Data

Year	2000	1999	1998	1997	1996	1995	1994	1993	1992	1991
Number	105	123	137	137	165	213	165	118	163	40
% of Total	32.6	31.6	32.8	31.9	21.1	27.2	26.9	34.0	52.4	44.9
Year				2007	2006	2005	2004	2003	2002	2001
Number				135	91	145	166	216	123	113
% of Total				33.4	23.1	35.2	53.8	36.1	24.3	34.1

Historically 23 Species have been recorded in this Section

Species Performance Summary

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
	1	1		8	1	1	11

Overall Summary

A stable year for this section and the 10th best performing section this year The 9th highest number of butterflies were recorded and it was the 17th most diverse section with 12 species being recorded.

Past Major Events

1991/92	Glade cleared of scrub.
1992/93	Standards thinned.
1993/94	Nettle bed cut twice (summer cut) in both years.
1993/07	Glade mown each year, cuttings cleared and composted.
2002	Glade re-coppiced.

Section M – Ryton Wood Ride 19A

Total numbers seen in 2007

2007	2006	Total	Mean	Change	Comment
88	97	1416	83	> 6%	Stable

Comparative Data

Year	2000	1999	1998	1997	1996	1995	1994	1993	1992	1991
Number	56	38	41	66	144	143	102	39	58	5
% of Total	17.3	9.8	9.8	15.3	18.4	18.2	16.6	11.2	18.7	5.6
Year				2007	2006	2005	2004	2003	2002	2001
Number				88	97	92	134	133	102	78
% of Total				21.8	24.6	22.3	27.3	22.2	20.2	23.6

Historically 23 Species have been recorded in this Section

Species Performance Summary

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
		3	1	2	4		13

Total Purple Hairstreaks numbers seen in 2006

2007	2006	Total	Mean	Change	Comment
19	27	534	33	< 42%	Poor

Comparative Purple Hairstreak Data

Year	2001	2000	1999	1998	1997	1996	1995	1994	1993	1992
Number	14	39	17	26	28	31	50	41	40	19
% of Total	25.0	31.2	28.8	26.8	21.1	31.0	32.9	24.7	32.5	38.8

Year					2007	2006	2005	2004	2003	2002
Number					19	27	27	83	11	62
% of Total					47.5	36.5	40.9	31.7	23.4	25.6

Overall Summary

This section is still performing well compared to other sections and was the 9th best performing section with regards to performance against its cumulative mean. It only had 10 different species recorded this year making it the 19th equal most diverse section. It recorded the 16th highest number of butterflies.

Past Major Events

1991/92	West side of ride coppiced.
1992/93	Standards thinned.
1995/07	Ride mown, cuttings removed and composted each year.
2000	Half of ride edge near section D re-coppiced 2 more standards felled.
2001	Half of ride edge near section L re-coppiced 3 more standards felled.

Ryton Wood East – 12^h Year

Total numbers seen in 2007

2007	2006	Total	Mean	Change	Comment
1150	1435	18,244	1403	< 18%	Stable

Comparative Data

Year	2004	2003	2002	2001	2000	1999	1998	1997	1996	1995	
Number	1647	2056	1736	1208	1715	1274	966	1297	1308	994	
Year									2007	2006	2005
Number									1150	1435	1458

Historically 29 Species have been recorded on this Transect

Species Performance Summary

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
	1	2		4	8	4	10

Overall Summary

This transect is now starting to decline relative to other transects. This is despite this transect recording the second highest number of butterflies and being the third most diverse with 19 species being recorded. The transect as a whole declined by 18% against its cumulative mean making it the 4th best performing transect. Overall it was its 10th best year. Urgent management work is now require in parts of this transect. Four areas of management are planned for this transect this year.

Section 1 – Ryton Wood Ride 3A (part, the Buckthorns) and Ride 2

Total numbers seen in 2007

2007	2006	Total	Mean	Change	Comment
128	159	1249	96	> 33%	Good

Comparative Data

Year	2004	2003	2002	2001	2000	1999	1998	1997	1996	1995	
Number	203	163	160	90	95	16	14	7	11	23	
% of Total	12.3	7.9	9.2	7.5	5.5	1.3	1.4	0.5	0.8	2.3	
Year									2007	2006	2005
Number									128	159	180
% of Total									11.1	11.1	12.4

Historically 20 Species have been recorded in this Section

Species Performance Summary

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
	6	1	1	1	3	1	7

Overall Summary

This section continues to improve relative to other areas of the wood. It improved by 33% relative to its cumulative mean making it the 4th best performing section. The section also recorded the 10th highest number of butterflies and was the 14th equal diverse with 13 species being recorded. This ride is now in a regime that will ensure that some part of this section will be managed annually.

Past Major Events

1992/93	Scallop coppiced by Buckthorns, 3A.
1995/99	Ride 3A mown each year.
1998	Pools coppice plot cut near ride 2 approx 50 metres.
1999/01	Ride 3A part 1 cuttings cleared and composted from 1999.
2000	Pools coppice plot area cut between ride 2 and towards ride 9.
2001	Pools coppice plot cut near 9. Previous years work finished.
2002	Scallop cut west side of 2A
2002/07	Ride 3A and all of 2 cut composted cleared
2003	Scallop cut west side of 2A.
2004	Scallop cut west side of 2A. Scallop cut junction ride 2 and 3A. Hedge relaid 3A from 2 to 1A.

Section 2 – Ryton Wood Pools Assart

Total numbers seen in 2007

2007	2006	Total	Mean	Change	Comment
181	160	2223	171	> 6%	Stable

Comparative Data

Year	2004	2003	2002	2001	2000	1999	1998	1997	1996	1995
Number	185	235	224	152	218	165	94	234	133	126
% of Total	11.2	11.4	12.9	12.6	12.1	12.9	9.7	18.0	10.2	12.7
Year								2007	2006	2005
Number								181	160	116
% of Total								15.7	11.1	7.9

Historically 25 Species have been recorded in this Section

Species Performance Summary

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
	2	2	2	5	2	2	10

Overall Summary

This section improved relative to other areas of the wood. This was the second best year in relation to the percentage of butterflies seen on the Ryton Wood East transect. It recorded the 8th highest number of butterflies and was the 9th equal diverse with 15 species being recorded. Overall it was the 3rd best performing section improving by 53% against its cumulative mean.

Past Major Events

1971	Flight Pool created using puddling clay. One third of old meadow was cleared in this process.
1990/91	One of the pool's three islands and a small area of scrub coppiced.
1995/96	Pond cleared of scrub and small glade cut by Flight Pool.
1995/07	Glades and paths mown, cuttings removed and composted each year.
1997/04	Coppice cycle started. First plot coppiced and standards thinned. Second and remaining plots cut away from transect route.
1999	Blackthorn coppice cycle started by flight pool. Two islands all scrub coppiced. Field pond coppiced.
2000	1999 Blackthorn coppiced near section 3. Field Pond area coppiced.
2001	Blackthorn coppiced by 3 A (south of stream).
2002	Blackthorn coppiced by 3A (north of stream). Coppice plot between field pond and ride 2.
2003	Coppice area west of ponds near ride 2.
2004	Coppice area east of shed pond near 3A.

Section 3 – Ryton Wood Ride 3A (part), 5 (part) and 6A (most)

Total numbers seen in 2007

2007	2006	Total	Mean	Change	Comment
46	44	694	53	< 13%	Stable

Comparative Data

Year	2004	2003	2002	2001	2000	1999	1998	1997	1996	1995
Number	61	108	63	51	77	49	36	22	47	32
% of Total	3.7	5.2	3.6	4.2	4.3	3.8	3.7	1.7	3.6	3.2
Year								2007	2006	2005
Number								46	44	58
% of Total								4.0	3.1	4.0

Historically 19 Species have been recorded in this Section

Species Performance Summary

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
1		1		6		1	10

Overall Summary

Overall a stable year for this transect. Historically this is a floristically poor section. It recorded the 24th highest number of butterflies and was the 23rd most diverse section with 9 species being recorded. Overall it was the 14th best performing section this year.

Past Major Events

1995/96	Western side of 3A and 5, and southern side of 6 coppiced. Standards thinned.
1995/98	Ride mown each year.
1999/07	Ride mown and cuttings removed.
2005	Scallop cut in ride 5A at junction with 6A.

Section 4 – Ryton Wood Meadows Assart

Total numbers seen in 2007

2007	2006	Total	Mean	Change	Comment
342	442	5020	386	< 11%	Stable

Comparative Data

Year	2004	2003	2002	2001	2000	1999	1998	1997	1996	1995	
Number	406	562	502	358	575	434	219	267	277	233	
% of Total	24.7	27.3	28.9	29.7	31.8	34.1	22.7	20.6	21.2	23.4	
Year									2007	2006	2005
Number									342	442	403
% of Total									29.7	30.8	27.6

Historically 24 Species have been recorded in this Section

Species Performance Summary

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
	2	1	2	6	5		8

Overall Summary

No management occurred last year but despite this it recorded the second highest number of butterflies. It was the 6th most diverse area with 16 species being recorded. Overall the number of butterflies recorded only declined by 11% against its cumulative mean making it the 13th most improved section this year.

Past Major Events

1987/88 & 1988/89	Glades in old meadow recreated.
1994/95	Coppice cycle around meadow started. First plot coppiced in south-east corner.
1995/96	Second plot cut in south-west.
1997/98	Two plots cut on the west side.
1998/99	One plot cut on the east side.
1988/07	Glades cut each year, cuttings removed and composted.
1999	Understorey coppice and standards thinned south side.
2000	Only third cut and cuttings removed. Coppiced plot cut western side most standards retained (next coppice plots away from meadow).
2001/04	Meadows coppice cycle plots cut away from transect route.
2005	Section cut south west corner between transect and 6A.

Section 5 – Ryton Wood Ride 34 (The Pheasantries)

Total numbers seen in 2007

2007	2006	Total	Mean	Change	Comment
18	17	310	24	< 25%	Poor

Comparative Data

Year	2004	2003	2002	2001	2000	1999	1998	1997	1996	1995
Number	25	25	41	18	26	27	24	24	18	19
% of Total	1.5	1.2	2.4	1.5	1.4	2.1	2.5	1.8	1.4	1.9
Year								2007	2006	2005
Number								18	17	28
% of Total								1.6	1.2	1.9

Historically 14 Species have been recorded in this Section

Species Performance Summary

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
	1	2		1	3	1	6

Overall Summary

This is one of the least diverse areas of the wood and one of the smallest sections. This year only 18 butterflies and 8 species were recorded. Only one other section recorded fewer butterflies. It was the equal 27th most diverse section. It was the 16th best performing section this year.

Past Major Events

1995/96	Ride created by connecting 9B through an old pheasant rearing area in to meadows (4).
1996/97	Path mown each year.
1998/04	Path mown and cuttings cleared and composted each year.
1999	East side of ride 34A northern half re-coppiced also north of ride 6B.
2000	East side of ride 34B southern half re-coppiced also south of ride 6B.
2001	Coppice south West side of ride 6A.
2002	Coppice North West side of ride 6A off transect.
2003	Coppice North East side between 6A and 34.

Section 6 – Ryton Wood Ride 9B

Total numbers seen in 2007

2007	2006	Total	Mean	Change	Comment
100	203	1829	141	< 29%	Poor

Comparative Data

Year	2004	2003	2002	2001	2000	1999	1998	1997	1996	1995
Number	175	248	151	79	153	146	130	120	112	52
% of Total	10.6	12.1	8.7	6.5	8.5	11.5	13.5	8.7	8.6	5.2
Year								2007	2006	2005
Number								100	203	160
% of Total								8.7	14.1	11.0

Historically 22 Species have been recorded in this Section

Species Performance Summary

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
	1	2		2	2	2	13

Overall Summary

A poor year for this section this year only 100 butterflies were recorded the 14th highest number. Only 9 species were recorded making it the 23rd equally diverse section. The section declined by 29% against its cumulative mean making it the 19th best performing section this year

Past Major Events

1991/92	Box junction coppiced by eastern side of Rides 12 and 5 (standards not thinned).
1995/96	Northern side of Ride coppiced and standards thinned (including standards in the boxed junction).
1996/97	Ride mown each year.
1998/07	Ride mown each year and cuttings cleared and composted.
2001	Southern side of ride 9B scallop cut near ride 12.
2002	Southern side of ride 9B scallop cut near ride 34B.
2003	Southern side of ride 9B scallop cut near ride 34B.

Section 7 – Ryton Wood Ride 9A (Scabious Ride)

Total numbers seen in 2007

2007	2006	Total	Mean	Change	Comment
58	116	2139	164	< 65%	Very Poor

Comparative Data

Year	2004	2003	2002	2001	2000	1999	1998	1997	1996	1995
Number	181	222	234	153	249	156	180	195	187	91
% of Total	11	10.8	13.5	12.7	13.8	12.2	18.6	15.0	14.3	9.2
Year								2007	2006	2005
Number								58	116	117
% of Total								5.1	8.1	8.0

Historically 27 Species have been recorded in this Section

Species Performance Summary

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
		1			2	6	18

Overall Summary

A very poor year for this ride only 58 butterflies were recorded the lowest number since recording began. Also only 9 species were recorded making it the equal 23rd most diverse area. It was overall the 29th or second worst performing section.

Past Major Events

1994/95	Scallop coppiced and standards thinned on the southern side of Ride.
1995/96	Both sides of ride by Doomsday Bank coppiced and standards thinned.
1995/99	Ride and Doomsday bank mown and cuttings removed and composted each year. (pools coppice cycle).
1999	Part of northern edge coppiced by ride 2 (pools coppice cycle).
2000	Part of northern edge coppiced by ride 2.
2001	Part of northern edge coppiced by ride 2 plot finished.
2002	Southern part of 9A (by 12) scallop re-coppiced.
2003	Northern part of 9A (by 5B) coppiced.
2002/03	Half of ride 9A (near 1A) mown cuttings removed and composted.
2004/07	All of 9A mown and cuttings removed and composted.

Section 8 – Ryton Wood ride 1B (Main Ride South)

Total numbers seen in 2007

2007	2006	Total	Mean	Change	Comment
277	294	4862	374	< 26%	Poor

Comparative Data

Year	2004	2003	2002	2001	2000	1999	1998	1997	1996	1995
Number	411	493	361	305	406	281	269	428	523	418
% of Total	25.0	24.0	20.8	25.3	22.6	22.1	27.9	33.0	39.9	42.1
Year								2007	2006	2005
Number								277	294	396
% of Total								24.1	20.5	27.2

Historically 26 Species have been recorded in this Section

Species Performance Summary

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
		1	1	5	6	3	10

Overall Summary

Only 277 butterflies were recorded this year, the second lowest number since recording began. Despite this it was still the 5th highest total amongst the sections. 16 species were recorded making it the 6th equal diverse section. Overall a poor year for this ride species declining by 26% against its cumulative mean making it the 17th equal performing section. The ride is in a lower part of the wood and was generally cooler this year so despite fairly recent management the ride did poorer than expected.

Past Major Events

1971	Ride widened when gas pipeline laid through the wood.
1989/91	Ride not mown.
1990/91	One scallop cut in eastern side of Ride (no standards thinned).
1992/04	All of east side of Ride and one third of west side mown on rotation, cuttings removed and composted since 1992.
2002	2 large scallops cut on east side of ride in the middle.
2003	2 large scallops cut on east side of ride one at the bottom and one at top.
2005/07	All of ride mown cuttings removed.

Ryton Wood West – 9th year

Total numbers seen in 2007

2007	2006	Total	Mean	Change	Comment
348	331	2175	217	> 60%	Very Good

Comparative Data

Year	2007	2006	2005	2004	2003	2002	2001	2000	1999	1998
Number	348	331	180	148	288	165	154	197	204	160

Historically 24 Species have been recorded in this Section

Species Performance Summary

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
1	3	6	2	2	3		7

Overall Summary

The best ever year for this transect following the previous best year last year. Despite this it recorded only the 5th highest number of butterflies and 4th highest number of species 17 compared to other transects. Only two sections performed better than this transect and both sections are part of this transect. Overall the transect improved by 60% against its cumulative mean. It is believed that this transect is improving due to recent large scale management.

Section 9 – Ryton Wood Ride 13A (Shrubs Wood Ride)

Total numbers seen in 2007

2007	2006	Total	Mean	Change	Comment
27	47	551	55	< 51%	Very Poor

Comparative Data

Year	2007	2006	2005	2004	2003	2002	2001	2000	1999	1998
Number	27	47	36	26	87	59	53	62	103	51
% of Total	7.7	14.2	14.9	14.3	28.1	33.7	34.4	31.5	50.5	31.9

Historically 17 Species have been recorded in this Section**Species Performance Summary**

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
			1	2	4	2	8

Overall Summary

This ride continues to decline relative to other sections. It declined by 51% making it the 26th worst performing section. It is 10 years since this ride was last coppiced. Only 27 butterflies were recorded this year the third lowest number of butterflies. Only 9 species were recorded making it the 23rd equally diverse section.

Past Major Events

1988	This part of the wood was opened to members of the public from Ryton Country Park.
1998/00	Path mown each year.
2001/04	Path mown cuttings removed and composted.

Section 10 – Ryton Wood Ride 14**Total numbers seen in 2007**

2007	2006	Total	Mean	Change	Comment
41	34	354	35	> 17%	Stable

Comparative Data

Year	2007	2006	2005	2004	2003	2002	2001	2000	1999	1998
Number	41	34	39	30	63	31	46	31	23	16
% of Total	11.8	10.3	16.2	16.5	20.3	17.7	29.9	15.7	11.3	10.0

Historically 12 Species have been recorded in this Section

Species Performance Summary

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
	7			1		2	2

Overall Summary

Historically this was a very shaded ride and despite this being the 6th most improved ride only 41 butterflies were recorded the 25th highest number recorded in all sections. This year was the third highest number of butterflies recorded. Ten species were recorded making it equally the 19th most diverse area. This ride is still improving and as further management is carried out it should improve further relative to other sections.

Past Major Events

1988	This part of the wood was opened to members of the public from Ryton Country Park.
1998/02	Path mown each year.
1999/00	Understorey coppiced
2001/07	Path mown and cuttings removed and composted.
2003	Scallop cut east side of ride near 15C. Ride 26 coppiced.
2006	Scallop cut to the west side of ride 26.

Section 11 – Ryton Wood Ride 15 (Part)

Total numbers seen in 2007

2007	2006	Total	Mean	Change	Comment
15	26	144	14	> 7%	Stable

Comparative Data

Year	2007	2006	2005	2004	2003	2002	2001	2000	1999	1998
Number	15	26	22	26	45	10	0	0	0	0
% of Total	4.3	7.8	9.1	14.3	14.5	5.7	0%	0%	0%	0%

Historically 16 Species have been recorded in this Section

Species Performance Summary

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
	2	1		2	1		10

Overall Summary

Only 16 butterflies were recorded in this small section, the least number of any section. Only 6 species were recorded this year making it also the least diverse section. This ride had management carried out last year at its junction with ride 25. Despite the small number of butterflies being recorded in this section it was still the 7th equal most improved area. This improvement is largely due to it improving from a poor base, for the first 4 years no butterflies were recorded.

Past Major Events

2001	Ride coppiced both sides standards thinned.
2002/07	Ride cut cuttings removed and composted.
2006	Scallop cut junction 15 and 25.

Section 12 – Ryton Wood Ride 25

Total numbers seen in 2007

2007	2006	Total	Mean	Change	Comment
112	86	356	36	>211%	Exceptional

Comparative Data

Year	2007	2006	2005	2004	2003	2002	2001	2000	1999	1998
Number	112	86	50	13	29	8	8	14	17	19
% of Total	32.2	26.0	20.8	7.1	9.4	4.6	5.2	7.1	8.3	11.9

Historically 19 Species have been recorded in this Section

Species Performance Summary

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
1	8	4		2			4

Overall Summary

This ride was once a very shaded path but in 2004 major ride widening was carried out. 112 butterflies were recorded this year the highest figure since recording began and the 15th highest number comparing all sections. Overall the ride improved a staggering 211% compared to its cumulative mean making it the most improved section. Also 15 species were recorded making it now the 9th equal most diverse area.

Past Major Events

1960's	Ride probably abandoned.
1997/98	Ninety-five percent of all Sycamores in the area felled. Small access path cut to join 15 with abandoned ride.
1999	Scallop cut junction 15 and 25.
2002	All sycamores felled, stumps and re-growth poisoned seedlings dug out.
2004	Three-quarters of ride coppiced both sides in 3 scallops.
2005/07	Ride mown cuttings composted.

Section 13 – Ryton Wood Ride 17

Total numbers seen in 2007

2007	2006	Total	Mean	Change	Comment
63	53	595	59	> 7%	Stable

Comparative Data

Year	2007	2006	2005	2004	2003	2002	2001	2000	1999	1998
Number	63	53	33	53	64	57	47	90	61	74
% of Total	18.1	16.0	13.7	29.1	20.6	32.6	30.5	45.7	29.9	46.2

Historically 17 Species have been recorded in this Section

Species Performance Summary

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
	6	1	1	1		1	7

Overall Summary

This ride can be divided into 3 distinct areas. An area recently managed in 2005, an area last managed in 1998 and a large block in between of neglected coppice where the canopy has completely closed. This ride improved by 7% compared to its cumulative mean making it the 7th equal improved section. Despite recent management only 63 butterflies were recorded this year the 21st highest number comparing all sections. Only 10 species were recorded this year making it the 19th equal most diverse section. Further management is planned over the next years that should continue this improvement.

Past Major Events

1994/95	As part of main coppice cycle, plot cut to northern side of Ride by F.
1995/96	Plot cut to southern side of Ride by 1.
1996/97	Plot cut between 15 and 17.
1997/98	Further plot cut to north side.
1996/00	Centre of ride mown each year and cuttings removed. Near section F.
2001/07	Centre of ride mown each year and cuttings removed and composted.
2002	Small number of sycamores felled stumps and re-growth poisoned seedlings dug out.
2005	Ride coppiced both side in 2 scallops between 25 and 16.
2006	Scallop cut junction 17 and 18.

Section 28 – Ryton Wood Ride 28

Two scallops cut southern edge of ride by ride 30.

Total numbers seen in 2007

2007	2006	Total	Mean	Change	Comment
90	85	302	30	>200%	Exceptional

Comparative Data

Year	2007	2006	2005	2004	2003	2002	2001	2000	1999	1998
Number	90	85	61	34	22	10	0	0	0	0
% of Total	25.9	25.7	25.3	18.7	7.1	5.7	0	0	0	0

Historically 19 Species have been recorded in this Section

Species Performance Summary

New Species	Exceptional	Very Good	Good	Stable	Poor	Very Poor	Absent
1	9		1	2			6

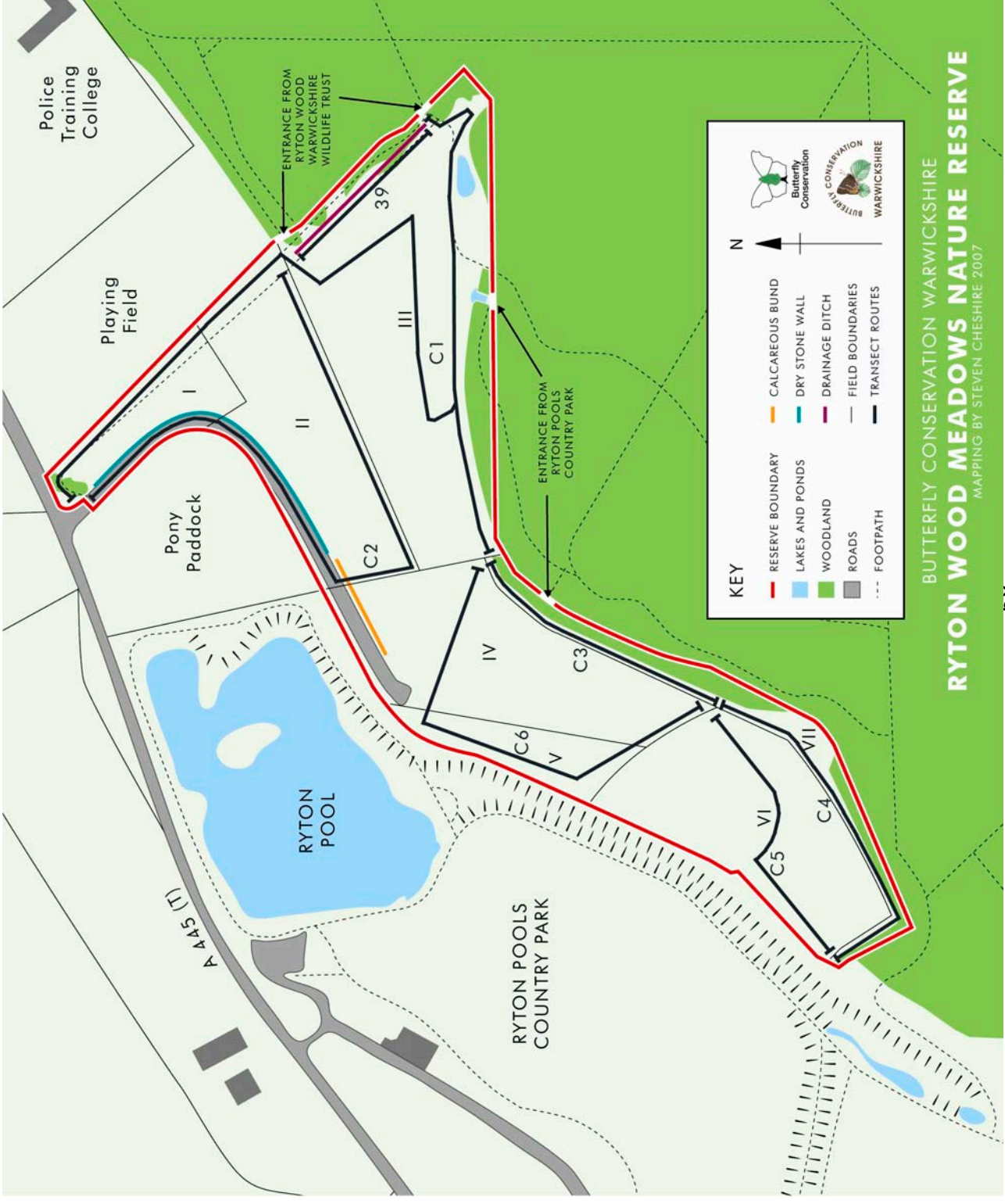
Overall Summary

No butterflies were seen in this ride during the first 4 years of surveying. In 2003 management was started, since then numbers have started to increase. 90 butterflies were recorded this year the highest number so far and the 15th highest when comparing all sections. 13 species were recorded making it the 14th most diverse area. Overall this section has improved 200% against its cumulative mean making it the second most improved section.

Past Major Events

2003	This abandoned 5 metre path was reopened.
2003	Two scallops cut southern edge of ride by ride 30.
2004	One scallop cut southern edge of ride by ride 25

For further interpretation of the butterfly year and methodology used, please refer to the respective Warwickshire Butterfly and Transect Report.



WEEKLY TRANSECT COUNTS & ANNUAL INDEX

County: **WARWICKSHIRE**
 Recorder: **MIKE SLATER**
 Site name: **Ryton Wood Meadows all sections**
 Grid reference: **SP376 726**

Year Length
 18th Buis 17th DFM
 2531 metres

Comment
 Good

WEEK NUMBER	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	Index	Mean	Change	Comment		
Small skipper	21	33	45	34	55	94	115	115	79	115	239	42	86	182	124	104	58	44						1585	88	< 50%	Poor		
Essex skipper									1	0	7	1	1	5	10	1	2	5							33	2	>150%	Exceptional	
Large skipper	6	1	13	20	94	56	60	23	39	26	42	14	32	51	27	36	52	56						648	36	> 56%	Very Good		
Dingy skipper					1	0	0	0	0	0	0	0	1*	2	13	14	30	22						83	5	>340%	Exceptional		
Grizzled skipper				6	3	1	0	0	0	0	0	0	0	0*	3	1	3	6						23	1	>500%	Exceptional		
Wood White														*	6	0	0	0						6	< 1	Absent	2005		
Clouded yellow						5	0	2	0	2	0	9	0	5	6	3	0	8	6					44	2	>200%	Exceptional		
Brimstone	9	4	9	4	5	1	7	2	3	4	2	1	1	6	7	10	5	8						88	5	> 60%	Very Good		
Large white	5	6	83	3	2	0	6	6	45	5	4	1	16	26	3	85	7	5						308	17	< 71%	Very Poor		
Small white	6	9	19	8	28	34	32	21	8	4	4	12	11	54	36	51	6	14						357	20	< 30%	Poor		
Green-veined white	26	13	23	15	9	18	9	17	56	5	37	5	16	40	53	40	19	55						456	25	>120%	Exceptional		
Orange tip	12	3	1	8	1	2	2	4	2	1	3	0	1*	2	0	2	0	4						48	3	> 33%	Good		
Green hairstreak														1	3	52	56	87						199	11	>690%	Exceptional		
Purple hairstreak														0	1	0	0	2	1					7	< 1	>?%	Exceptional		
White-letter Hairstreak																													
Small copper	6	11	16	5	9	11	14	3	1	0	0*			0	6	10	0	3	0					95	5	Absent	2006		
Brown argus														0	2	1	5	8	10	6				39	2	>200%	Exceptional		
Common blue	134	48	399	219	228	43	35	61	40	86	88	38	154	526	122	167	116	34						2538	141	> 76%	Very Poor		
Holly blue	1	1	16	0	0	2	8	2	0	0	0	0	0	3	0	4	0	0	5					42	2	>150%	Exceptional		
White admiral						1	3	6	1	0	0	0	0	3	1	0	6	2						23	1	>100%	Very Good		
Red admiral	2	1	6	2	1	0	5	2	2	0	0	1	0	8	2	4	25	10						71	4	>150%	Exceptional		
Painted lady	12	0	2	0	0	0	70	0	3	3	3	0	3	40	8	0	20	7						171	9	< 22%	Poor		
Small tortoiseshell	161	10	45	8	2	26	126	87	3	0	9	6	19	115	69	25	6	25						742	41	< 39%	Poor		
Peacock	94	17	172	28	11	18	118	91	24	41	21	24	23	30	74	132	105	168						1191	66	>154%	Exceptional		
Comma						4	0	1	2	0	4	0	3	7	6	8	12	9	13	18	13			100	6	>117%	Exceptional		
Dark Green fritillary																2	0	0						2	< 1	Absent	2005		
Silver-washed fritillary														1	5	1	10	5						22	1	>400%	Exceptional		
Speckled wood	1	1	8	12	4	2	1	2	6	4	4	1	1	3	1	7	2	8						68	4	>100%	Very Good		
Wall	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						1	< 1	Absent	1990		
Marbled white						1	0	0	2	3	19	34	75	91	58	148	86	95	166	88				916	51	>72%	Very Good		
Gatekeeper	31	25	21	17	48	74	108	77	72	90	270	103	146	274	364	267	232	171						2390	133	> 29%	Good		
Meadow brown	105	84	203	87	179	351	393	273	576	980	1294	473	461	1215	994	848	861	527						9904	550	< 4%	Stable		
Small heath	44	22	15	5	12	6	28	42	30	38	17	2	13	43	54	29	36	49						485	27	> 81%	Very Good		
Ringlet	3	3	3	12	33	31	3	34	89	108	141	73	208	396	141	261	287	286						2112	117	>144%	Exceptional		
	680	293	1104	493	726	774	1147	901	1120	1588	2292	854	1268	3195	2233	2259	2153	1717						24797	1378	> 25%	Good		
6 Spot Burnet						2	0	0	1	6	1	0	205	264	134	32	24							669	39	< 39%	Poor		
NB 5 Spot Burnet						1	20	7	11	9	20	77	149	44	6	73	165	338	239	22			1258	74	< 70%	Very Poor			
Chimney Sweeper														0	0	0	0	0						1	< 1	Absent	1996		
Lattice Heath						1	0	0	0	0	0	0	0	0	0	0	0	0						100	6	< 67%	Very Poor		
Cinabar	3	9	0	1	1	6	17	5	2	4	4	0	9	26	18	12	7							124	7	0%	Stable		
Silver Y	6	2	1	12	3	63	0	16	2	19	1	8	32	3	8	85	11							272	16	< 31%	Poor		
Mother Shipton						2	0	3	0	1	0	2	0	1	1	1	1	2						14	1	>100%	Very Good		
Burnet Companion						1	0	0	0	2	3	1	3	22	26	33	20	15						126	7	>114%	Exceptional		
Hummingbird Hawkmoth														1	0	0	2	0						3	< 1	Absent	2006		
	9	13	21	27	21	87	37	101	84	183	55	34	363	502	553	394	83							2567	151	< 45%	Poor		

WEEKLY TRANSECT COUNTS & ANNUAL INDEX

County Warwickshire
Recorder MIKE SLATER

Site name
Grid reference

Ryton Wood all sections
SP383 726

Year Length
18th
1500 metres

Comment

Poor Year

WEEK NUMBER	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	Index	Mean	Change	Comment	
Small skipper	22	45	26	20	53	80	48	31	13	12	27	12	19	3	4	5	2	3							425	24	< 88%	Very Poor	
Essex skipper																													
Large skipper	7	8	30	17	41	65	48	16	16	23	23	8	29	13	16	4	9	13							386	21	< 38%	Poor	
Dingy skipper																													
Grizzled skipper																													
Wood White																10	15	0	0						25	1	Absent	2005	
Clouded yellow			1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						1	< 1	Absent	1992	
Brimstone	16	15	36	14	17	20	30	20	11	2	11	10	11	4	14	12	10	9							262	15	< 40%	Poor	
Large white	26	42	216	57	22	28	7	15	51	4	10	11	37	36	24	17	13	11							627	35	< 69%	Very Poor	
Small white	6	12	25	6	20	43	12	4	3	4	1	12	1	7	0	0	0	0							156	9	Absent	2003	
Green-veined white	91	72	149	96	98	108	56	128	155	153	102	65	159	157	166	82	34	104							1975	110	< 6%	Stable	
Orange tip	15	14	15	15	16	11	16	15	6	6	8	14	5	9	6	5	2	5							183	10	< 50%	Poor	
Green hairstreak																1	0	0							1	< 1	Absent	2005	
Purple hairstreak	2	1	1	11	7	14	13	0	4	0	21	0	3	0	8	0	4	2							91	5	< 60%	Very Poor	
Small copper	3	5	1	1	19	7	*	0	0	0	0	0	0	0	0	0	0	0							36	2	Absent	1995	
Brown argus																2	0	0							2	< 1	Absent	1995	
Common blue	127	5	20	11	60	33	4	2	0	1	3	1	0	1	0	0	0	0							268	15	Absent	2003	
Holly blue	5	13	20	0	0	0	0	14	7	1	0	0	7	0	2	1	0	1							71	4	< 75%	Very Poor	
White admiral	5	21	57	31	13	10	48	18	19	10	24	14	17	27	32	25	33	6							410	23	< 74%	Very Poor	
Red admiral		14	17	3	2	8	15	4	12	11	6	4	4	13	3	1	12	5							134	7	< 29%	Poor	
Painted lady			2	0	1	0	56	0	0	0	1	0	1	3	0	0	2	0							66	4	Absent	2006	
Small tortoiseshell	10	0	4	0	1	16	6	8	0	0	0	1	0	1	1	0	0	0							48	3	Absent	2004	
Peacock	79	91	287	119	44	87	238	193	35	46	44	47	32	28	32	25	33	68							1528	85	< 20%	Stable	
Comma	10	39	24	2	1	12	15	43	4	16	19	11	25	21	27	8	22	7							306	17	< 59%	Very Poor	
Small PB Fritillary						5	3	1	0	0	0	0	0	0	0	0	0	0							9	< 1	Absent	1997	
Pearl B Fritillary								1	1	1	0	0	0	0	0	0	0	0							3	< 1	Absent	1999	
Silver-washed fritillary	5	13	1	1	2	1	2	1	0	1	17	3	5	18	18	8	20	6							119	7	< 14%	Stable	
Speckled wood	61	99	188	115	109	73	47	69	98	91	90	69	138	116	105	98	105	67							1738	97	< 31%	Poor	
Wall																													
Marbled white						2	0	0	1	*	0	0	0	2	0	1	2	0								8	< 1	Absent	2006
Gatekeeper	90	197	220	60	145	154	178	35	33	58	92	20	27	59	92	46	26	21							1553	86	< 76%	Very Poor	
Meadow brown	315	382	480	102	225	364	379	116	149	262	338	215	135	281	174	102	96	90							4205	234	< 62%	Very Poor	
Small heath	3	1	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0							7	< 1	Absent	1996	
Ringlet	135	294	370	159	229	241	153	118	200	256	194	116	239	269	183	136	168	127							3587	199	< 36%	Poor	
	1028	1375	2204	840	1124	1385	1374	851	818	958	1031	633	894	1068	917	592	593	545							18230	1013	< 46%	Poor	
Purple hairstreak W/K	92	206	322	308	331	576	278	405	213	295	355	210	471	180	608	215	204	87							5356	298	< 71%	Very Poor	
White-letter H W/K																													
	92	206	322	308	331	576	278	405	213	295	355	210	471	180	608	215	204	87											

WEEKLY TRANSECT COUNTS & ANNUAL INDEX

County Warwickshire
Recorder MIKE SLATER

Site name
Grid reference

Ryton Wood North all sections
SP383 729

Year Length
Butts 17th HSW 16th
749 metres

Comment
Stable Year

WEEK NUMBER	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	Index	Mean	Change	Comment
Small skipper	1	5	12	31	35	20	6	7	7	7	0	7	6	5	1	6	1						150	9	< 89%	Very Poor	
Essex skipper																	1										New Sp
Large skipper	2	5	26	49	30	8	8	4	4	2	6	16	5	6	6	6	4						183	11	< 64%	Very Poor	
Dingy skipper														1	0	1	0						2	< 1	Absent	2006	
Grizzled skipper														1	1	0	0						2	< 1	Absent	2005	
Wood White															2	0	0						2	< 1	Absent	2005	
Clouded yellow																											
Brimstone	1	12	4	11	17	7	2	4	3	4	3	0	3	16	11	5							120	7	< 29%	Poor	
Large white	1	25	34	7	23	4	2	20	4	6	2	5	7	4	14	9	6						173	10	< 40%	Poor	
Small white	3	2	13	11	12	7	0	1	0	0	0	7	3	0	0	2	0						61	4	Absent	2006	
Green-veined white	9	21	76	52	75	44	61	66	17	21	27	69	49	54	37	11	35						724	43	< 19%	Stable	
Orange tip	2	10	9	7	7	4	5	0	4	2	10	0	4	3	0	2							69	4	< 50%	Poor	
Green Hairstreak															2	8	2						12	1	> 100%	Very Good	
White-letter Hairstreak					3	0	0	0	0	0	1	17	12	30	17	1	9						90	5	> 80%	Very Good	
Purple hairstreak		5	2	4	8	0	5	0	0	1	9	0	9	2	1	0	0						46	3	Absent	2006	
Small copper		4	8	3	3	0	1	0	0	0	0	0	1	4	0	1	0						25	1	Absent	2006	
Brown argus					2	0	0	0	0	0	0	0	0	0	0	2	2						6	< 1	> %?	Exceptional	
Common blue	3	20	42	18	0	8	0	7	1	2	0	7	2	0	1	3							114	7	< 57%	Very Poor	
Holly blue	1	5	0	0	3	16	1	0	0	0	1	0	1	1	1	1	5						35	2	> 150%	Exceptional	
White admiral	3	2	8	7	6	25	4	2	7	2	6	5	15	16	18	16	11						153	9	> 22%	Good	
Purple Emperor															1	0	0						1	< 1	Absent	2005	
Red admiral	11	1	2	6	13	2	2	2	2	0	1	2	11	2	2	8	7						72	4	> 75%	Very Good	
Painted lady						14	0	0	0	0	1	0	2	0	1	2	0						20	1	Absent	2006	
Small tortoiseshell	2	4	0	4	9	15	0	1	0	0	0	0	2	1	0	0	0						38	2	Absent	2004	
Peacock	22	71	51	40	54	111	70	34	18	19	11	10	13	15	21	18	35						613	36	< 3%	Stable	
Comma	2	1	2	9	5	20	0	3	4	1	8	6	8	8	8	11	10						98	6	> 67%	Very Good	
Silver-washed fritillary										1	*	1	1	2	0	5	1						10	1	0	Stable	
Speckled wood	29	56	55	73	42	12	16	63	52	43	27	71	44	36	30	28	34						711	42	< 19%	Stable	
Wall																											
Marbled white					1	1	0	3	0	1	1	1	1	1	3	11	4						27	2	> 100%	Very Good	
Gatekeeper	2	20	14	60	139	44	30	29	46	25	25	53	83	46	46	27							749	44	< 39%	Poor	
Meadow brown	16	49	22	163	244	245	70	101	135	110	135	103	218	140	95	88	100						2034	120	< 17%	Stable	
Small heath					1	1	2	0	0	0	0	0	1	0	0	0	1						7	< 1	> %?	Exceptional	
Ringlet	5	24	26	83	121	41	53	71	95	54	78	136	142	63	85	100	99						1276	75	> 32%	Good	
	89	311	347	613	787	782	430	417	389	323	331	505	599	491	412	394	404						7624	448	< 10%	Stable	
Purple hairstreak W/K	49	123	166	152	100	133	97	59	125	56	242	47	262	66	74	40							1791	112	< 64%	Very Poor	
White-letter H W/K					1	3	0	1	0	0	11	5	15	9	5	5							55	3	> 67%	Very Good	
	49	123	166	153	103	133	98	59	125	56	253	52	277	75	79	45							1846	115	< 61%	Very Poor	

WEEKLY TRANSECT COUNTS & ANNUAL INDEX

County
Recorder

Warwickshire
MIKE SLATER

Site name
Grid reference

Ryton East History
SP385 724

Year
Length

Comment

13th
2100 metres

Stable Year

WEEK NUMBER	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	Index	Mean	Change	Comment	
Small skipper	9	33	21	1	6	7	13	12	6	12	9	4	3												136	10	< 70%	Very Poor	
Essex skipper																									399	31	< 29%	Poor	
Large skipper	36	46	28	14	22	24	42	52	25	35	19	34	22																
Dingy skipper																													
Grizzled skipper								1	1	0	0	0	0												2	< 1	Ab	2003	
Wood White								4	3	11	21	2	0												41	3	Absent	2006	
Clouded yellow																													
Brimstone	10	32	22	10	8	9	15	15	16	21	35	16	21												230	18	> 17%	Stable	
Large white	28	5	25	43	9	27	19	33	59	18	51	31	17												365	28	< 39%	Poor	
Small white	24	19	19	2	6	2	3	1	11	10	8	1	6												112	9	< 33%	Poor	
Green-veined white	151	103	326	374	232	344	213	467	409	326	204	142	238												3529	271	< 12%	Stable	
Orange tip	13	14	34	20	18	30	53	37	16	15	21	32	12												315	24	< 50%	Poor	
Green hairstreak																													
Purple hairstreak	12	7	1	5	1	4	4	6	2	9	6	7	2												66	5	< 60%	Very Poor	
Small copper	4	2	1	0	0	0	0	0	2	1	0	0	0												10	1	Absent	2004	
Brown argus	2	4	0	0	0	0	0	0	0	0	1	0	0												7	1	Absent	2005	
Common blue	15	2	1	0	2	0	3	0	5	2	0	0	0												30	2	Absent	2004	
Holly blue	2	10	4	0	0	0	2	3	0	0	0	0	1												22	2	< 50%	Poor	
White admiral	17	64	27	13	18	6	12	13	17	13	27	51	9												287	22	< 59%	Very Poor	
Purple Emperor																										1	< 1	Absent	2006
Red admiral	1	22	6	7	7	2	3	3	19	5	7	21	19												122	9	> 111%	Exceptional	
Painted lady	49	0	0	0	0	2	0	1	9	0	0	10	1												72	6	< 83%	Very Poor	
Small tortoiseshell	4	7	6	0	0	0	0	2	8	7	0	1	0												35	3	Absent	2006	
Peacock	35	220	263	44	150	65	45	89	75	59	77	124	172												1418	109	> 58%	Very Good	
Comma	14	19	49	4	8	25	17	23	47	46	34	35	19												340	26	< 27%	Poor	
Small PB Fritillary	5	0	1	0	*		0	0	0	0	0	0	0												6	< 1	Absent	1997	
Silver-washed fritillary	1	0	1	2	4	32	9	6	14	14	16	56	21												176	13	> 61%	Very Good	
Speckled wood	55	21	32	43	52	61	51	80	58	59	60	52	43												667	51	< 16%	Stable	
Wall				1	0	0	0	0	0	0	0	0	0												1	< 1	Absent	1998	
Marbled white									1	0	0	0	0												1	< 1	Absent	2003	
Gatekeeper	54	130	28	14	28	65	69	93	106	204	97	101	49												1038	80	< 39%	Poor	
Meadow brown	229	300	117	97	311	571	326	236	690	460	301	286	157												4081	314	< 50%	Poor	
Small heath																													
Ringlet	277	209	275	268	392	439	309	559	457	320	464	428	338												4735	364	< 7%	Stable	
	994	1308	1297	966	1274	1715	1208	1736	2056	1647	1458	1435	1150												18244	1403	< 18%	Stable	

WEEKLY TRANSECT COUNTS & ANNUAL INDEX

County Warwickshire
Recorder MIKE SLATER

Site name
Grid reference

Ryton Wood West All Sections
SP377 724

Year Length
10th
1863 metres

Comment
Very Good Year

WEEK NUMBER	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Index	Mean	Change	Comment	
Small skipper						1	0	0	0	0														1	<1	Absent	2003	
Essex skipper																												
Large skipper	2	3	2	0	2	0	0	1	4	4														18	2	>100%	Very Good	
Dingy skipper																												
Grizzled skipper																												
Wood White								2	0	0														2	<1	Absent	2005	
Clouded yellow																												
Brimstone	2	2	6	5	2	3	0	5	6	8														39	4	>100%	Very Good	
Large white	12	13	3	3	8	5	3	6	7	10														70	7	> 43%	Good	
Small white																								3	<1	Absent	2005	
Green-veined white	28	22	18	14	36	52	22	34	29	43													298	30	> 43%	Good		
Orange tip	2	5	1	3	4	1	0	2	0	1													19	2	< 50%	Poor		
Green hairstreak								2	0	0														2	<1	Absent	2005	
Purple hairstreak																								8	1	>100%	Very Good	
Small copper																												
Brown argus																												
Common blue																												
Holly blue	2	0	0	1	0	0	0	1	1	1														6	1	0	Stable	
White admiral	8	3	4	4	4	11	15	9	43	13														114	11	> 18%	Stable	
Red admiral	1	1	0	1	0	5	0	4	7	10														29	3	>230%	Exceptional	
Painted lady																								1	<1	Absent	2000	
Small tortoiseshell																												
Peacock	16	19	15	23	6	8	0	5	15	78														185	18	>333%	Exceptional	
Comma																								30	3	< 33%	Poor	
Silver-washed fritillary																								58	6	>383%	Exceptional	
Speckled wood	63	78	88	63	72	97	59	79	45	43														687	69	< 38%	Poor	
Wall																												
Marbled white																												
Gatekeeper	2	10	10	4	4	11	1	7	41	20														110	11	> 82%	Very Good	
Meadow brown	11	31	22	23	7	66	31	7	62	53														313	31	> 71%	Very Good	
Small heath																									1	<1	Absent	2006
Ringlet	11	16	16	7	17	12	12	10	48	30														179	18	> 67%	Very Good	
	160	204	197	154	165	288	148	180	331	348														2175	217	> 60%	Very Good	

WEEKLY TRANSECT COUNTS & ANNUAL INDEX

County Recorder: Warwickshire MIKE SLATER
 Site name Grid reference: 39 Section History SP380 728
 Year Length: 3rd 335 metres
 Comment: Stable Year

WEEK NUMBER	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Index	Mean	Change	Comment	
Dingy Skipper	11	13	10																					34	11	< 10%	Stable	
Grizzled Skipper	3	1	4																					8	3	> 33%	Good	
Wood White	0	0	0																					19	6	> 67%	Very Good	
Green Hairstreak	4	5	10																					61	20	> 20%	Stable	
	18	19	24																									

WEEKLY TRANSECT COUNTS & ANNUAL INDEX

County Recorder: Warwickshire MIKE SLATER
 Site name Grid reference: Purple Emperor Male Congregation Areas
 Year Length: 3rd 20 metres
 Comment: Poor Year

WEEK NUMBER	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Index	Mean	Change	Comment
Site 1	2	8	2																					12	4	< 50%	Poor
Site 2	3	5	2																					10	3	< 33%	Poor
Site 3		2	1																					3	1	0	Stable
Site 4		3	0																					3	1	Absent	2006
Total	5	18	5																					28	9	< 44%	Poor

Date	Task Carried Out	Name of Group	Hours per Volunteer	Total Hours	No of Days
October					
15-Oct	Northern ride edge coppice		2 x 2 + 1 x 6 ½	10½	3
16-Oct	Northern ride edge coppice		1 x 2 ½	2½	1
20-Oct	Northern ride edge coppice		1 x 1 ½	1½	1
22-Oct	Northern rides coppice		1 x 5	5	1
24-Oct	Northern rides coppice Finish		1 x 2	2	1
29-Oct	Northern ride edge coppice Finish		1 x 6 + 2 x 2	10	3
Total				31½ hrs	10 days
November					
05-Nov	Main Coppice Plot 3		1 x 6 ½ + 1 x 3	9½	2
06-Nov	Main Coppice Plot 3	WWT	30 x 5	150	30
12-Nov	Main Coppice Plot 3		4 x 4 + 2 x 5	26	6
15-Nov	Main Coppice Plot 1	WWT	17 x 5 + 1 x 6	91	18
16-Nov	Main Coppice Plot 1		1 x 4 ½	4 ½	1
17-Nov	Main Coppice Plot 1		1 x 3 ½	3 ½	1
18-Nov	Main Coppice Plot Finish 1 & 3		1 x 6	6	1
19-Nov	Main Ride coppice		2 x 3 + 1 x 4 + 1 x 6 ½	16 ½	4
26-Nov	Main Ride coppice Finish		1 x 6 ½ + 1 x 4	10 ½	2
Total				317½ hrs	65 days
December					
09-Dec	Blackthorn Coppice		1 x 4 + 5 ½	9 ½	2
10-Dec	Blackthorn Coppice		2 x 2 ½ + 1 x 3 ½	8 ½	3
14-Dec	Blackthorn Coppice		1 x 6 + 1 x 2 ½	8 ½	2
17-Dec	Blackthorn Coppice		3 x 6 + 2 x 4	26	5
Total				52 ½ hrs	12 days
January					
05-Jan	Writing Conservation Report		1 x 5	5	1
06-Jan	Writing Conservation Report		1 x 5	5	1
07-Jan	Writing Conservation Report		1 x 5	5	1
14-Jan	Blackthorn coppice Finish		4 x 2 + 1 x 3 + 1 x 5	16	6
20-Jan	Main Coppice 2		1 x 4	4	1
21-Jan	Doomsday Coppice		1 x 3 + 3 x 4	15	4
28-Jan	Doomsday Coppice Finish		1 x 5 + 3 x 4 ½	18 ½	4
Total				68 ½ hrs	18 days
February					
04-Feb	Mid Western rides coppice		3 x 2 ½ + 1 x 5 + 1 x 6 ½	19	5
06-Feb	Mid Western rides coppice		1 x 4 + 1 x 6 ½	10 ½	2
11-Feb	Mid Western rides coppice		1 x 4 + 3 x 2 ½ + 1 x 6 ½	18	5
15-Feb	Mid Western rides coppice		1 x 4 + 1 x 6	10	2
16-Feb	Mowing meeting		1 x 1	1	1
17-Feb	Eastern Central rides coppice		1 x 4	4	1
18-Feb	Mid Western rides coppice		1 x 6 + 1 x 5 + 2 x 2 ½	16	4
23-Feb	Mid Western rides coppice Finish		1 x 4 + 1 x 6	10	2
24-Feb	Eastern Central rides coppice		1 x 4	4	1
25-Feb	Western rides coppice		2 x 3 ½ + 1 x 6	13	3
Total				105 ½ hrs	26 days
March					
02-Mar	Western rides coppice Finish		1 x 4 + 1 x 7 ½	11 ½	2
03-Mar	Eastern Central rides coppice		1 x 5 ½	5 ½	1
04-Mar	Eastern Central rides coppice Finish		1 x 2 ½	2 ½	1
05-Mar	Mid Western rides coppice		1 x 4 + 1 x 6 ½	10 ½	2
10-Mar	Central rides coppice		1 x 5 ½	5 ½	1
11-Mar	Central rides coppice Finish	WWT	1 x 6 ½	77	16
	Eastern rides coppice		3 x 4 ½		
	Fence travellers		10 x 5 ½		
16-Mar	Mid Western rides coppice		1 x 4 1/2 + 1 x 5	9 ½	2
17-Mar	Eastern Edge rides coppice		2 x 3 ½ + 1 x 6	13	3
18-Mar	Eastern Edge rides coppice		1 x 6 + 1 x 3	9	2
24-Mar	Eastern Edge rides coppice		1 x 6	6	1
25-Mar	Eastern Edge rides coppice Finish		1 x 6 ½	10 ½	2
	Mid Western rides coppice Finish		1 x 4		
Total				160 ½ hrs	33 days
April					
01-Apr	Western Rides coppice part 2		3 x 6	29	5
	150 DV Scabious plugs meadows		1 x 4 ½ + 1 x 6 ½		
02-Apr	Transect		1 x 2 ½	2 ½	1
05-Apr	Western Rides coppice part 2		1 x 3	9	2
	Litter pick		1 x 6		
06-Apr	North East Rides coppice		1 x 6	6	1
07-Apr	North East Rides coppice Finish		1 x 6 ½	6 ½	1
08-Apr	Western Rides coppice part 2		1 x 6	10	2
	Finish		1 x 4		
14-Apr	Transect		1 x 2 ½	2 ½	1
15-Apr	Main coppice part 2		3 x 6	26	5
	Mow main Ride, ride 38 & 22		1 x 3		
	½ RW meadows 1 section 3 & 4		1 x 5		
17-Apr	Transect		1 x 2 ½	2 ½	1
22-Apr	Main coppice part 2		3 x 6	22 ½	4
	Finish		1 x 4 ½		
28-Apr	Transect		1 x 2 ½	2 ½	1
29-Apr	Seeding RW Meadows GT Birdsfoot, Sweet Violet, DV Cransbill, Yellow Rattle		3 x 6	18	3
Total				137 hrs	27 days
May					
05-May	Transect		1 x 2 ½	2 ½	1
06-May	Sycamore Control		1 x 3	10	2
	Seeding GT Birdsfoot-trefoil, DV Cransbill, Salard Burnet, Meadow 3		1 x 7		
07-May	Conservation Advice Hall Green & Brandon Marsh		1 x 7	7	1
09-May	Seeding GT Birds-foot-trefoil all 06/07 coppice, Yellow Rattle C2		1 x 2 ½	2 ½	1
10-May	Seeding GT Birds-foot-trefoil meadow 3 section 5		1 x 4 ½	4 ½	1
12-May	Transect		1 x 2 ½	2 ½	1
13-May	Seeding GT Birds-foot-trefoil meadow 3 section 5 all done		1 x 4 ½	4 ½	1
18-May	Seeding GT Birds-foot-trefoil C5		1 x 2 ½	2 ½	1

19-May	Transect		1 x 2 ½	5	1
	Ragwort control Fence Repair		1 x 2 ½		
20-May	Transect		1 x 2 ½	2 ½	1
21-May	Ragwort Control		1 x 1 ½	1 ½	1
22-May	Ragwort Control		1 x 1 ½	1 ½	1
23-May	Ragwort Control		1 x 3	3	1
24-May	Forestry Strategy		1 x 7	7	1
25-May	Recording monitoring workshop		2 x 8	16	2
27-May	Ragwort Control		1 x 6 ½	6 ½	1
	150 d violet plugs				
	50 sorrel plugs				
	100 Red Clover plugs				
	100 BF Trefoil plugs				
28-May	Reserve Opening guided work		1 x 9	9	1
29-May	Ragwort Control		1 x 2	2	1
30-May	Ragwort Control 3hrs		1 x 4	4	1
	Griz Skipper Survey 1 hr				
31-May	Ragwort, Bramble control 6 hrs		1 x 7	7	1
	Griz Skipper Survey 1hr				
			Total	99 hrs	22 days
	June				
01-Jun	Ragwort & Teasel Control		1 x 6	6	1
02-Jun	Ragwort & Teasel Control 4 ½ hrs		1 x 7	7	1
	Tansect 2 ½ hrs				
03-Jun	Ragwort & Teasel Control 4 ½ hrs		1 x 7	7	1
	Gr Skipper egg search 1 ½ hrs				
04-Jun	Bramble,Ragwort,Teasel poison 6 hrs		1 x 7	7	1
	Ragwort pull 1 hr				
05-Jun	Bramble,Ragwort,Teasel poison 5 ½ hrs		1 x 8	8	1
	Dingy Skipper egg search 2 ½ hrs				
06-Jun	Griz Skipper egg search		1 x 3	3	1
07-Jun	Thistle, Ragwort poison		1 x 6	6	1
08-Jun	Survey Southan,Stockton & Nelsons Quarry		1 x 6 ½	6 ½	1
09-Jun	Transect		1 x 2 ½	2 ½	1
10-Jun	Turf ht measuring 4 hrs		1 x 6	6	1
	Thistle,Ragwort poison 2 hrs				
11-Jun	Thistle,Ragwort,Teasel poison		1 x 6	6	1
12-Jun	Conservation Advice Butlers Marston & Monitoring		1 x 8	8	1
13-Jun	Thistle,Ragwort,Teasel poison		1 x 4	4	1
14-Jun	Report writing Griz Skipper		1 x 4	4	1
15-Jun	Transect 2 ½ hrs		1 x 4 ½	4 ½	1
	Report writing Griz Skipper 2 hrs				
16-Jun	2000 Teasel removed		1 x 6 ½	6 ½	1
18-Jun	750 Teasel removed		1 x 3	3	1
19-Jun	500 Teasel removed 2 ½ hrs		1 x 5	5	1
	Transect 2 ½ hrs				
20-Jun	1000 Teasel removed 4 ½ hrs		1 x 5 ½	5 ½	1
	Surveying 1 hr				
21-Jun	550 Teasel removed		1 x 6	6	1
	2400 Ragwort removed				
22-Jun	Dingy Skipper report		1 x 4	4	1
23-Jun	Dingy Skipper report		1 x 6	6	1
24-Jun	100 Teasel removed		1 x 6	6	1
	6000 Ragwort removed				
25-Jun	250 Teasel removed		1 x 5 ½	5 ½	1
	4000 Ragwort removed				
26-Jun	Meeting WW Trust		1 x 2	2	1
27-Jun	Survey Long Marston		1 x 3	3	1
28-Jun	Transect 2 ½ hrs		1 x 7 ½	7 ½	1
	300 Teasel Removed 5 hrs				
	3200 Ragwort Removed				
29-Jun	750 Teasel Removed		1 x 3	8 ½	2
	3000 Ragwort Removed		1 x 5 ½		
30-Jun	Transect 2 ½ hrs		1 x 9	9	1
	500 Teasel removed 5 hrs				
	2400 Ragwort removed				
	Hairstreak Walk 1 ½				
			Total	163	30 days
	21,000 Ragwort removed June				
	6,700 Teasel removed June				
	July				
01-Jul	100 Teasel Removed		1 x 2	8 ½	2
	4000 Ragwort Removed		1 x 6 ½		
02-Jul	6000 Ragwort Removed		1 x 6 ½	6 ½	1
03-Jul	4800 Ragwort Removed		1 x 4 ½	4 ½	1
05-Jul	800 Ragwort Removed		1 x 4	4	1
06-Jul	Site meeting David Smith 2 hrs		1 x 5 ½	5 ½	1
	Transect 1 ½ hrs				
	Ragwort removal 2 hrs				
07-Jul	Guided walk 3 hrs		1 x 6	6	1
	Transects 3 hrs				
08-Jul	Dark Green Frit monitoring 3 ½ hrs		1 x 5	5	1
	Purple Emperor survey 1 ½ hrs				
09-Jul	4,800 Ragwort Removed 4 hrs		1 x 6 ½	6 ½	1
	Purple Emperor survey 2 ½ hrs				
10-Jul	4,000 Ragwort Removed		1 x 4	4	1
11-Jul	4,400 Ragwort removed 5 hrs		1 x 6 ½	6 ½	1
	Transect 1 ½ hrs				
12-Jul	4,400 Ragwort Removed		1 x 6	6	1
13-Jul	Guided walk		1 x 3	3	1
14-Jul	Transects		1 x 4	4	1
15-Jul	Surveying		1 x 3	3	1
16-Jul	Surveying		1 x 7	7	1
17-Jul	8,000 Ragwort Removed		1 x 6 ½	6 ½	1
18-Jul	200 Ragwort Removed from previously cleared area 2 ½ hrs		1 x 6	6	1
	Survey 2 hrs				
	Transect 1 ½ hrs				
19-Jul	Transect 3 hrs		1 x 8 ½	8 ½	1
	200 Ragwort Removed from previously cleared area 3 ½ hrs				
	Meeting T W Skips 2 hr				
21-Jul	8,800 Ragwort removed		1 x 6	6	1

22-Jul	10,000 Ragwort removed		1 x 7 + 1 x 1 + 1 x 1 ½	9 ½	3
23-Jul	6,000 Ragwort removed 4 ½ hrs		1 x 5 ½	5 ½	1
	200 Ragwort Removed from previously cleared area 1hr				
24-Jul	Site meeting Ryton, Knowle Hill and transect		1 x 6	6	1
25-Jul	Small Blue survey Southam		2 x 2	4	2
26-Jul	1,600 Ragwort removed		1 x 2	2	1
27-Jul	12,400 Ragwort removed 7 hrs		1 x 7 ½	7 ½	1
	Transect 1 ½ hrs				
28-Jul	Transect		1 x 2 ½	2 ½	1
29-Jul	2,000 Ragwort removed		1 x 1 + 1 x 6	7	1
30-Jul	6,400 Ragwort removed		1 x 7	7	1
31-Jul	4,000 Ragwort removed 3 hrs		1 x 6	6	1
	Transect 3 hrs				
			Total	164 hrs	33 days
	92,600 Ragwort removed July				
	August				
01-Aug	Survey 2 hrs		1 x 6 ½	6 ½	1
	3,600 Ragwort removed 4 ½ hrs				
02-Aug	6,400 Ragwort Removed 6 ¼ hrs		1 x 7	7	1
	Transect ¾				
03-Aug	Remove overhanging branches in prep for mowing		1 x 5 ½ + 1 x 3 ½	9	1
04-Aug	2,000 Ragwort removed		1 x 5 ½	5 ½	1
05-Aug	800 Ragwort removed 3 ½ hrs		1 x 6	6	1
	Transect 2 ½ hrs				
07-Aug	1,200 Ragwort removed		1 x 4 ½	7	2
	Remove protruding metal		1 x 1		
	Transect 1 ½ hrs		1 x 1 ½		
08-Aug	9,600 Ragwort removed		1 x 6 ½	6 ½	1
09-Aug	3,600 Ragwort removed		1 x 3 ½	3 ½	1
17-Aug	Bund creation 4 ½ hrs		1 x 6	6	1
	Transect 1 ½ hrs				
18-Aug	Habitat creation Barclay's		6 x 4	24	6
21-Aug	Stockton Visit with Middlemarch		1 x 2	2	1
23-Aug	Ride mowing Ryton Wood		1 x 6	14	2
	Transect		1 x 8		
24-Aug	Signing Ryton Wood		1 x 1	1	1
26-Aug	Transect		1 x 4	4	1
	Habitat creation dry stone wall				
27-Aug	Raking 39,38, part 22, consolidate compost heaps 20,19A		1 x 6	6	1
28-Aug	Access improvements for tractors 3 ½ hrs		1 x 3 ½	8 1/2	2
	Ragwort removal 1 ½ previously cleared area		1 x 5		
29-Aug	2,200 Ragwort removed		1 x 4 ½	4 ½	1
30-Aug	Carrilion Day 133 hrs 26 days		63 carrilion students	483	69
	Raking of Rides		6 WWT & BC staff		
31-Aug	Planting 3200 Gt Birdsfoot Trefoil plugs				
	1,600 Ragwort removed from previously cleared areas		1 x 6	6	1
			Total	616 hrs	96 days
	31,00 Ragwort removed August				
	September				
01-Sep	4,800 Ragwort removed Finish		1 x 6 ½	6 ½	1
	100 Teasel removed				
02-Sep	400 Teasel Removed		1 x 6	6	1
	10 mtr Dry Stone wall enhanced				
03-Sep	450 Teasel Removed		1 x 6 ½	6 ½	1
	10 mtrs Dry stone wall enhanced				
04-Sep	12 mtrs Dry stone wall enhanced		1 x 4	4	1
	100 Teasel Removed				
05-Sep	700 Teasel Removed		1 x 4	4	1
07-Sep	Coppice main ride		1 x 3 + 1 x 7	10	2
08-Sep	1000 Teasel removed		1 x 5	5	1
09-Sep	Coppice main ride		1 x 3 ½ + 1 x 7	10 ½	2
10-Sep	450 Teasel Removed Finish		1 x 5	5	1
11-Sep	5 metres dry stone wall enhanced 1 hr		1 x 5	5	1
	Transect 2 ½ hrs				
	Surveying 1 ½ hrs				
12-Sep	Main ride coppice scallop 2 hrs		1 x 4 + 1 x 6 ½	10 ½	2
14-Sep	Coppice main ride scallop 1 hr		1 x 3 + 1 x 8	11	2
16-Sep	Coppice Northern rides Finish scallop 2 hrs		1 x 3 + 3 x 6 ½	22 ½	4
17-Sep	Main ride coppice Finish scallop 1 hr		1 x 4 ½	4 ½	1
18-Sep	Coppice Northern rides scallop 1 3 hrs		1 x 3	9	2
	Site Visit Long Marston 3 ½ hrs				
	Transect 2 ½ hrs		1 x 6		
21-Sep	Northern rides scallop 1 hr		1 x 3 + 1 x 6	9	2
23-Sep	Cov & Warwick radio interview 1 hr		1 x 7	11	2
	Northern rides scallop 1 hr		1 x 4		
26-Sep	Attempt transect		1 x 2	2	1
27-Sep	Raking 21, 23A, 23B, 19B, 24		1 x 4	4	1
29-Sep	Transect		1 x 2 ½	2 ½	1
30-Sep	Northern Rides scallop 1		1 x 2 ½ + 3 x 6 ½	22	4
			Total	170½ hrs	34 days
	4,800 Ragwort removed September				
	3,200 Teasel removed September				

Total for Period	2084 hrs	406 days
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