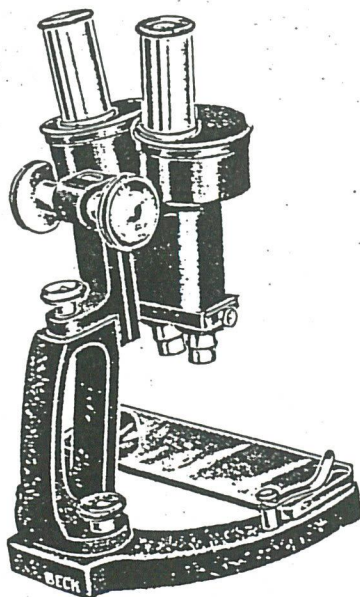


# LONG EATON NATURAL HISTORY SOCIETY BULLETIN

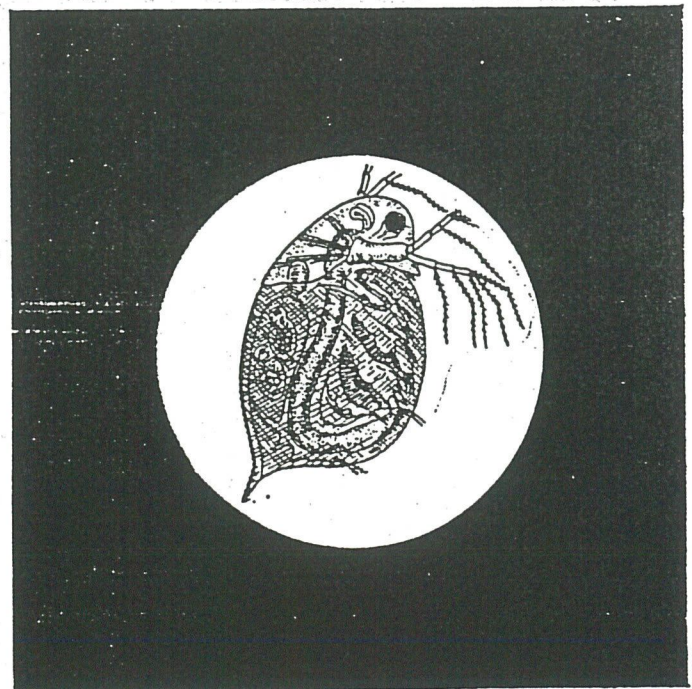
No. 37

SPRING 1998

CHAIRMAN	: ALAN HEATH
SECRETARY	: CAROLE WILLAN
MEETINGS SECRETARY	: J & F BLACKBURN
TREASURER	: FAY DRAPER



Low-power binocular  
microscope



Common water-flea. *Daphnia pulex*

78

CHAIRMAN'S FORWARD

At the end of this bulletin is a report of sightings at the GOLDEN BROOK NATURE RESERVE, BREASTON as provided by Neill Goff, the reserve warden. This is testimony to the hard work the team do at the reserve and serves to illustrate what can be seen locally.

Members will be pleased to learn that the proposed car park development at Triangle Pond, Sawley has been stopped. LENS sent a letter pointing out the importance of maintaining this site in its present form and Erewash Borough Council were unanimous in rejecting the planning application on the grounds that it would have interfered with a biologically important site.

Water seems to be retained at FORBES HOLE though no doubt the heavy rainfall in January will have contributed to this. The summer period will be the testing time and we are cautiously optimistic that water will remain at this Grade 1 site.

The society is preparing for its survey of TROWELL MARSH nature reserve during the spring and summer of this year and a plan of the site is included with this bulletin for the convenience of any member wishing to visit the site on their own. Time has been allocated in the Summer Programme for the survey but it is hoped that as many as possible will visit the site at times other than these and report their findings.

Finally, I hope that my recently acquired Bat Detector will help to throw some light in bat populations locally. Following the talk given to LENS by Alan Wragg about 'Bats' I felt this instrument would be a useful investment.

Thanks are extended to all for their continued support.

Alan Heath

\* \* \* \* \*

REPORTS

COURTAULD'S NATURE RESERVE, Spondon - Jeanette Rhodes

Twelve members visited the reserve on the 14th July 1997. It was a fine evening and we were met by the Public Relations Officer. He gave a short introductory talk on the work of the Courtauld plant.

The reserve itself was not accessible on the far side so the birds which nest there have complete isolation. There were two hides which afforded a very good view of both ends of the lakes. Water is drawn from the lakes and is circulated for cooling purposes. As we watched we were delighted to see a kingfisher which showed itself for some considerable time.

\* \* \* \* \*

BIRD RECORD -

John & Judy Langford

The following is a report of BLACKCAP as seen in the garden of 114 Breendon Street, Long Eaton.

- November 1997 : One female Blackcap seen on the 11th.
- December 1997 : One male seen on the 4th and again on the 5th.
- January 1998 : One male seen on the 11th, 12th, 13th, 15th and 21st.

\* \* \* \* \*

BIRD RECORD -

Max Bryce

Four Bean Geese were recorded at Trent Meadows at the end of January 1998

One male and one female Siskin seen in the garden at 205 Tamworth Road, Long Eaton on the 17th and 18th February 1998. This is a first sighting of this bird at this location.

	SAMPLES	visits
Forbes Hole	3	2
Ticknall	2	1
Triangle Pond, Sawley	1	1
TOTAL	6	4

FORBES HOLE : Only two samples obtained from the Main Pond and one from the Small Pond on March 17 before it dried up in the summer. See Special Report.

TICKNALL : Visit on May 26 when sample taken from Zeta Pool and Omega Pool.

TRIANGLE POND - SAWLEY : One visit with samples taken on August 18 with Lynn Winfield following her Open University study.

\* \* \* \* \*

TICKNALL : List from both ponds -  
 Daphnia obtusa, Culex larva, Cyclops, Cypris, Ascellus, Chironomid larva, Caddis larva, Dragonfly larva, Cloeon nymph, Green Lestres larva, Gammarus, Peashell, Simocephalus, Diaptomus, Potomopyrgus jenkinsii, Cladorphora, Corixa Pinnularia, Oscillatoria, Bursaria, Nematode, Cymbella ehrenbergii, Spirogyra, Pleurosigma, Campylodiscus, Rotifer sp.

TRIANGLE POND : List from two sites -  
 Cleon nymph, Scapheloberis, Diaptomus, Eurycercus, Daphnia sp., Cypris, Cyclops, Limnesia sp., Hydracarina  
 Pandorina, Loxophyllum, Vorticella, Spirostomum, Pleurosigma, Synedra, Cymbella ehrenbergii, Fragellaria, Asterionella, Nitzschia sigmoidea, Bacillaria paradoxa, Cymbella gastroides, Pinnularia.  
 Species recorded by Mrs Lynn Winfield have been placed in the Long Eaton Natural History Society records.  
 We were successful in stopping development at this pond.

	pH	Hardness	Dissolved O <sub>2</sub>	Conductance
TICKNALL - Zeta	7.4	285 ppm	-	222 μS
Omega	8.2	265 ppm	-	142 μS
TRIANGLE POND	8.6	175 ppm	9.1 ppm	250 μS

FORBES HOLE : SUMMARY 1997

During the year only two samples were taken from the Main Pond and one from the Small Pond. These were on 17th March and 16th November.

DATE	pH	Total Hardness	DISSOLVED O <sub>2</sub>	Conductance
17 March	7.8	215 ppm	6.6 ppm	333 $\mu$ S
16 November	7.8	215 ppm	-	166 $\mu$ S

	17 March	16 November	POP. INDEX	Comp. with 1996
Cyclops	C	-	2.0	- 1.0
Corixa	VR	-	0.5	+ 0.5
Cypris	VR	VR	0.5	+ 0.5
Cloeon nymph	-	R	1.0	+ 1.0
Chydorus	-	C	2.0	- 2.0
Limnaea sp.	-	R	1.0	+ 1.0
Fragellaria	O	-	1.5	- 0.5
Nitzschia sigmaidea	O	VR	2.0	=
Pinnularia	O	R	2.5	- 0.5
Synedra	R	F	3.5	+ 0.5
Euglena	R	-	1.0	+ 1.0
Phacus	VR	VR	1.0	+ 1.0
Coleps	O	VR	2.0	+ 2.0
Rotifer sp	VR	-	0.5	+ 0.5
Peridinium	-	F	2.5	+ 1.5
Loxophyllum	-	R	1.0	+ 1.0
Spirogyra	-	D <sup>R</sup>	4.0	=
Diatoma	-	C	2.0	+ 2.0
Cymbella ehrenbergii	-	R	1.0	+ 1.0
Pediastrum	-	VR	0.5	+ 0.5
Stentor	-	VR	0.5	+ 0.5
Acrometium oxaliferum	-	R	1.0	+ 1.0
Myriophyllum	-	D <sup>R</sup>	4.0	+ 4.0

NOTE : The above is from only two samples and has been compared with only one sample last year. This is hardly a fair comparison but the lack of samples has been due to water loss at the pond. It is being used to try to assess the extent of return of species.

Note the apparent absence of Diaptomus, and Daphnia

Water level estimated about two feet at the end of the year and it is hoped it will remain.

SMALL POND : This pond more or less dried up during the year and the following list was from a single sample on March 17

Cyclops, O ; Daphnia hyalina - O ; Diaptomus - VR ; Chydorus - VR ; Fragellaria - VR ; Arcella - R ; Pinnularia - VR ; Nitzschia sigmaidea - VR ; Oscillatoria - VR ; Rotifer sp. VR ; Cymbella ehrenbergii - R

WEATHER SUMMARY 1997

Alan Heath

PREVAILING WIND	- WEST
LEAST WIND	- SOUTH-EAST
WARMEST DAY	- August 10 88°F
COLDEST DAY	- Jan 3 and Oct 29 both at 23 F
WETTEST DAY	- July 9 with 23.8mm in thunderstorm and included hail
WETTEST MONTH	- June
DRIEST MONTH	- March
DAYS WITH OVER INCH OF RAIN IN 24 HRS.	- none
TOTAL THUNDERSTORMS	- 5
TOTAL RAIN	- 22.42 inches (569.6mm which equals 0.43 ins per week)
TOTAL DRY DAYS + NIGHTS	- 501
TOTAL WET DAYS + NIGHTS	- 229
TOTAL SNOW (Level in inches)	- 1½ ins
DAYS WITH NEW SNOW ON GROUND	- 3
TOTAL FOG	- 8
FOG ALL DAY	- 1
BAROMETER Max.	- 30.9 on Jan 28 and 29
Min.	- 28.9 on Feb 24
STRONG WIND/GALES	- 4 Feb 19 and 20 and Dec 24 and 25
AVERAGE MAXIMUM TEMPERATURE	- 68.8 F
AVERAGE MINIMUM TEMPERATURE	- 34.25 F
DAYS WITH TEMPERATURES OF 80°F OR MORE	- 20 there being 6 in July and 14 in Aug.
DAYS WITH TEMPERATURES OF 32°F OR LESS	- 34 there being 12 in Jan, 3 in Feb, 3 in Mar, 2 in Apr 7 in Oct, 4 in Nov and 3 in Dec.

NOTES : Rainfall was approximately 2 inches below average but was 3 inches up on the previous year.

June was very wet with only 1982 and 1985 having more locally since records started here in 1960. June total more than the whole summer last year (June to September)

RELOCATION OF WEATHER STATION

From 18th June 1997, the Weather station was moved to 6 Harlaxton Drive, LONG EATON, Nottingham NG10 2ER.

NAT. GRID. REF. 501/341 52° 54' 03" N  
1° 15' 18" W

Elevation 100 ft (30m)

There was no loss of records as the change over was smooth and rapid.

WEATHER SUMMARY 1997

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
TEMPERATURE Max.	50	56	63	70	79	76	83	88	73	70	60	58
Min.	23	28	32	30	38	43	49	49	40	23	28	28
Day	10.3	41.7	5.9	18.9	42.5	45.6	52.4	32.8	11.6	18.4	40.7	25.5
Night	6.6	7.8	7.9	4.3	7.2	57.0	26.1	41.6	5.3	20.9	25.7	12.9
Total	16.9	49.5	13.8	23.2	49.7	102.6	78.5	74.4	16.9	39.3	66.4	38.4
DAYS DRY	21	10	21	25	21	10	21	19	22	23	14	20
NIGHTS DRY	28	19	25	27	27	18	21	21	26	24	16	22
DRY DAYS + NIGHTS	49	29	46	52	48	28	42	40	48	47	30	42
DAYS WITH RAIN	10	18	10	5	10	20	10	12	8	8	16	11
NIGHTS WITH RAIN	3	9	6	3	4	12	10	10	4	7	14	9
RAIN IN INCHES	0.67	1.95	0.54	0.91	1.96	4.04	3.09	2.93	0.67	1.55	1.60	1.51
WETTEST DAY	19	24	2	25	5	12	9	30	19	9	28	18
THUNDERSTORMS	-	-	-	-	1	1	1	2	-	-	-	-
BAROMETER Max.	30.9	30.6	30.8	30.6	30.6	30.4	30.5	30.3	30.6	30.85	30.6	30.8
Min.	29.85	28.9	29.85	29.75	29.2	29.35	29.8	29.8	29.7	29.45	29.05	29.4
FOG	2	-	1	-	1	-	-	-	1	2	-	1
FOG ALL DAY	-	-	-	-	-	-	-	-	-	-	-	1
SNOW (Total inches)	1 1/4	-	-	-	-	-	-	-	-	-	-	1 1/4
DAYS WITH NEW SNOW ON GROUND	2	-	-	-	-	-	-	-	-	-	-	1
DAYS WITH TEMPS. 80 OR MORE	-	-	-	-	-	-	6	14	-	-	-	-
DAYS WITH TEMPS. 32 OR LESS	12	3	3	2	-	-	-	-	-	7	4	3

WIND 1997

	N	NE	E	SE	S	SW	W	NW	TOTAL
Jan	2	9	3	1	3	2	2	-	22
Feb	-	-	-	1	4	13	11	-	29
Mar	2	1	1	-	-	6	11	2	23
Apr	3	4	2	-	-	1	8	2	20
May	5	5	2	2	2	6	2	-	24
Jun	4	-	2	2	6	6	4	1	25
Jul	2	1	5	1	5	1	10	4	29
Aug	2	1	4	5	4	4	5	-	25
Sep	1	2	5	1	1	3	12	1	26
Oct	3	1	4	-	4	2	8	2	24
Nov	-	-	4	4	5	3	5	1	22
Dec	3	-	6	2	4	3	9	2	29
TOTAL	27	24	38	19	38	50	87	15	298

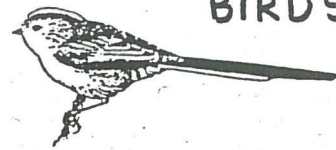
MONTHLY WEATHER SUMMARY -

- January Snow on first two days. There were 12 days with temps. below freezing. Cool but mainly dry
- February Wet and windy month. Dominance of W or SW wind. Very strong wind on 19th and 20th
- March Windy at beginning and end of month. Easter fine and warm. Good views of Comet Hale-Bopp. A good and rather dry month. Driest month of year and mild
- April A very dry month with no rain at all until the 21st. Much needed rain on 25th and 26th.
- May Beginning and end of month warm. Much needed rain helped by thunderstorm on 20th.
- June Wettest month of the year. Only 1982 and 1985 have shown more rain in June since records started here in 1960. June's total is over the total amount for the summer of 1996 (June to September)
- July Fairly wet month with wettest day of year on the 9th with nearly an inch of rain, this being during thunderstorm which included hail. There were 5 days with temperatures of 80F or more
- August Warm month with temperatures of 80F or more every day but one between the 6th and 20th. Warmest day of year on the 10th at 88 F. Thunderstorm on the 31st caused some damage locally. Hot and very humid in second and third week.
- September A mainly dry month with some warm days. Barometer fell below 30.0 on only three days.
- October Most of the rain came in the second week. Some very hard frost in the last week and the 29th shared with Jan 3 as coldest day of the year.
- November A fairly wet month especially in the latter half.
- December Quite mild for the time of the year at times but cold in the first week and snow fell on the 17th. Wind strong to gale over the Christmas period especially on the 24th. Mild again in last week

There was a total eclipse of the Moon on September 16th.



GOLDEN BROOK NATURE RESERVE,  
BREASTON, DERBYSHIRE.



BIRDS

										1997			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
BLACKBIRD												/	/	/	/	/	/	/	/	/	/	/	/	/	/
BLACK CAP												/	/	/	/	/	/	/	/	/	/	/	/	/	/
BLACK-HEADED GULL												/	/	/	/	/	/	/	/	/	/	/	/	/	/
BLUE TIT												/	/	/	/	/	/	/	/	/	/	/	/	/	/
BRAMBLING												/	/	/	/	/	/	/	/	/	/	/	/	/	/
BULLFINCH												/	/	/	/	/	/	/	/	/	/	/	/	/	/
BUZZARD												/	/	/	/	/	/	/	/	/	/	/	/	/	/
CANADA GOOSE												/	/	/	/	/	/	/	/	/	/	/	/	/	/
CARRION CROW												/	/	/	/	/	/	/	/	/	/	/	/	/	/
CHAFFINCH												/	/	/	/	/	/	/	/	/	/	/	/	/	/
CHIFFCHAFF												/	/	/	/	/	/	/	/	/	/	/	/	/	/
COCKATIEL												/	/	/	/	/	/	/	/	/	/	/	/	/	/
COLLARED DOVE												/	/	/	/	/	/	/	/	/	/	/	/	/	/
COMMON SANDPIPER												/	/	/	/	/	/	/	/	/	/	/	/	/	/
COMMON SNIPE												/	/	/	/	/	/	/	/	/	/	/	/	/	/
COMMON TERN												/	/	/	/	/	/	/	/	/	/	/	/	/	/
CORMORANT												/	/	/	/	/	/	/	/	/	/	/	/	/	/
CORN BUNTING												/	/	/	/	/	/	/	/	/	/	/	/	/	/
COOT												/	/	/	/	/	/	/	/	/	/	/	/	/	/
CUCKOO												/	/	/	/	/	/	/	/	/	/	/	/	/	/
DUNNOCK												/	/	/	/	/	/	/	/	/	/	/	/	/	/
FIELDFARE												/	/	/	/	/	/	/	/	/	/	/	/	/	/
GADWELL												/	/	/	/	/	/	/	/	/	/	/	/	/	/
GARDEN WARBLER												/	/	/	/	/	/	/	/	/	/	/	/	/	/
GOLDCREST												/	/	/	/	/	/	/	/	/	/	/	/	/	/
GOLD FINCH												/	/	/	/	/	/	/	/	/	/	/	/	/	/
GOLDEN PHEASANT												/	/	/	/	/	/	/	/	/	/	/	/	/	/
GOLDEN PLOVER												/	/	/	/	/	/	/	/	/	/	/	/	/	/
GOSHAWK												/	/	/	/	/	/	/	/	/	/	/	/	/	/
GRASSHOPPER WARBLER												/	/	/	/	/	/	/	/	/	/	/	/	/	/
GREAT SPOTTED WOODPECKER												/	/	/	/	/	/	/	/	/	/	/	/	/	/
GREAT TIT												/	/	/	/	/	/	/	/	/	/	/	/	/	/
GREENFINCH												/	/	/	/	/	/	/	/	/	/	/	/	/	/

		1997	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
GREEN SANDPIPER				/				/						
GREEN SHANK														
GREEN WOODPECKER														
GREY WAGTAIL				/		/						/	/	
HERON				/		/	/	/	/	/	/	/	/	
HOBBY								/	/	/	/	/	/	
HOUSE MARTIN							/	/	/	/	/	/	/	
HOUSE SPARROW				/		/	/		/	/	/	/	/	
JACKDAW											/	/	/	
JACKSNIFE				/		/					/	/	/	
JAY														
KESTREL				/		/	/	/	/	/	/	/	/	
KINGFISHER								/	/	/	/	/	/	
LESSER SPOTTED WOODPECKER														
LESSER WHITETHROAT							/	/	/	/	/	/	/	
LINNET				/		/	/	/	/	/	/	/	/	
LITTLE GREBE						/	/	/	/	/	/	/	/	
LONG-TAILED TIT				/		/	/	/	/	/	/	/	/	
MAGPIE				/		/	/	/	/	/	/	/	/	
MALLARD				/		/	/	/	/	/	/	/	/	
MEADOW PIPIT				/		/		/						
MARSH TIT												/	/	
MERLIN														
MISTLE THRUSH				/		/	/	/	/	/	/	/	/	
MOORHEN				/		/	/	/	/	/	/	/	/	
MUTE SWAN				/		/	/	/	/	/	/	/	/	
PHEASANT												/	/	
PIED WAGTAIL				/		/	/	/	/	/	/	/	/	
PINTAIL														
RED BREASTED MERGANSER														
RED LEGGED PARTRIDGE														
RED POLL														
REED BUNTING				/		/	/	/	/	/	/	/	/	

1997

REED WARBLER

REDWING

RING NECKED PARAKEET

ROBIN

ROOK

SAND MARTIN

SEDGE WARBLER

SHELDUCK

SHOVELLER

SISKIN

SKYLARK

SONG THRUSH

SPARROW HAWK

SPOTTED FLYCATCHER

STARLING

STOCK DOVE

SWALLOW

SWIFT

TAWNEY OWL

TEAL

TREE CREEPER

TREE SPARROW

WATER RAIL

WHITETHROAT

WHOOPER SWAN

WIGEON

WILLOW TIT

WILLOW WARBLER

WOOD COCK

WOOD PIGEON

WOOD WARBLER

WREN

YELLOW HAMMER

YELLOW WAGTAIL

JAN

FEB

MAR

APR

MAY

JUN

JUL

AUG

SEP

OCT

NOV

DEC

1997

JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC

BANK VOLE

COMMON SHREW

FIELD VOLE

FOX

GREY SQUIRREL

MINK

MOLE

NOCTULE BAT

PIGMY SHREW

PIPESTRELLE BAT

RAT - BROWN

WATER SHREW

WATER VOLE

BRIMSTONE

COMMA

COMMON BLUE

GATEKEEPER

GREEN-VIENED WHITE

HOLLY BLUE

LARGE WHITE

MEADOW BROWN

ORANGE TIP

PAINTED LADY

PEACOCK

RED ADMIRAL

SMALL COPPER

SMALL SKIPPER

SMALL TORTOISEHELL

SMALL WHITE

SPECKLED WOOD

WALL BROWN

L...

MAMMALS

BUTTERFLIES



NEW ADDITIONS TO  
PREVIOUS LISTS WHICH  
WERE RECORDED IN  
1997

										1997			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
COALTIT																			/			/			
COMMON GULL																							/		
FERAL PIGEON													/										/		
DAUBENTON BAT																	/								
HOUSE MOUSE											/														
STOAT																	/								
WOOD MOUSE												/	/												
LARGE SKIPPER																	/								
AZURE DAMSELFLY														/			/								
BANDED AGRION														/			/	/							
BLUE-TAIL DAMSELFLY														/			/	/							
COMMON BLUE DAMSELFLY														/											
4 SPOTTED CHASER																	/								
GREAT DIVING BEETLE																							/		
POND SKATER												/							/						
WATER SCORPION																			/	/					
CINNABAR MOTH																			/						
TIGER MOTH																			/						
VAPOURER MOTH																				/					
MEADOW GRASSHOPPER																		/	/	/					
6 SPOT BURNETT																		/							
LONG HORNED SAWFLY																		/							
LADYBIRD												/													
BUFF-TAIL BUMBLEBEE												/													
BLACK TEAL																		/							
TUFTED DUCK																		/							
GARGANY																		/							
SNIPE										/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/