

FORTH AREA BIRD REPORT 1993

C J Henty University
of Stirling

This report is compiled from a larger archive of records submitted to the local recorder under the national scheme organised by the Scottish Ornithologists Club. The area covered by the report comprises the Districts of Falkirk and Clackmannan together with Stirling District excluding Loch Lomondside and other parts of the Clyde drainage basin. Records from Carron Valley may be published both here and in the report on Clyde birds.

I am getting concerned that the separation of records into the four major areas is confusing the presentation of various items - in particular the first arrival dates of migrants would be more coherent on a regional basis. I however, it is felt that any major change would be premature since the political/administrative boundaries are under review and the result is not yet clear. There has been a welcome increase in records from the inland part of Falkirk District.

I here have been two recent major books covering the birds of our area, *Central Scotland (Land-Wildlife-People)*, 1993, published by Forth Naturalist and Historian is in many ways an updated version of *The Stirling Region* (1974) and contains a chapter reviewing the status of the birds of Central Region. Also, the eagerly awaited account of the 1988-91 national survey of breeding birds, *The New Atlas of Breeding Birds in Britain and Ireland* (British Trust for Ornithology, (1974), has appeared and naturally the maps include results of local interest. However readers should be warned not to take at face value any apparent disappearances from the local 10 km squares compared with *1968-72 Atlas*. The recent survey was not so thorough so that many scarce or unobtrusive species have been overlooked, besides which it has become apparent that several sets of data went missing between observer and the BTO computer. Nevertheless, at a national level the *New Atlas* brings in novel methods of presentation and gives opportunity for repeated and enjoyable browsing.

The 1993 weather gave us overall temperature and rainfall that were close to average, although the monthly temperatures for the first half of the year were higher than normal this was evened up by a colder second half. I however, as usual, these averages conceal much important short term variation. Thus early January was very wet and windy and after some mid-month snow had melted there was severe flooding. By contrast, February was consistently dull but strikingly dry until the last week brought rain and snow. Most of March was changeable until a late spell of snow and frost. April was generally unsettled and very wet until clear weather at the very end gave warm days and frosty nights which continued through early May. However, mid May was exceptionally cold with new snow on the hills, this led to unsettled weather with occasional warm days lasting through June and July.

August and September were much drier than usual but generally dull and lacking any extended sunny and warm spells. Early October was wet but then

became calm and foggy with some severe frosts; this pattern stayed through most of November although the very end of the month brought rain and wind that continued into early December. The rest of December was unsettled but often cold with snow that lay only briefly on the low ground. There were thus no exceptional spells of weather that might be expected to affect birds markedly except that the cold of mid May could well have harmed breeding success.

The drake American Wigeon at Gartmorn Dam was officially accepted by the British Birds Rarities Committee and stayed well into 1993. Numbers of Blacktailed Godwits have continued to be consistently high around Grangemouth for much of the year and G.Owens counted an alltime record in April, the cessation of model plane flying at Skinflats has led to a much more consistent occupation of the pools. Once again the autumn passage of the scarcer waders was generally poor. There has been a welcome increase in Stonechat records suggesting that this species is at last recovering after years of low population. The record of a Lesser Whitethroat suggests that this species is attempting to colonise the region and it is worth investigating areas of dense deciduous scrub in May - in 1993 one sang from a bank of Hawthorn and Elder in Stirling. People wishing to become familiar with this and many other species might like to view a set of videotapes held by the SOC local branch - contact the secretary or Derek [ones at a meeting. Some comments on the abundance of common resident species have been made, quoting data on records per kilometre of transect or per hour; transects mean that birds have been recorded systematically along a particular route, counts usually being repeated on several dates. For less common species I can sometimes mention data in terms of the numbers of pairs or apparently occupied territories for particular locations. For many species the records sent in are very unrepresentative of their general distribution, this applies particularly to very common species or to those that are secretive or breed in inaccessible places. Readers can consult the Check List published in the *Forth Naturalist and Historian* vol 15, but in addition I have in this report put, after the species name, a coded summary of general distribution - which often apparently contradicts the detailed records that are published for the year.

B - Breeding status, widespread (in more than five 10 km squares)

b - " " , local, scarce (in fewer than five 10 km squares)

W - Winter status, widespread or often in groups of more than ten.

w - " " , local, scarce (local and usually fewer than ten in a group)

P - Passage (used when species is usually absent in winter, P or p used for widespread or local as in winter status)

S or s - a few species are present in summer but do not normally breed.

Thus BW would be appropriate for Robin, B for Swallow, p for Ruff and SW for Cormorant. No status letter is used if a species occurs less than every other year.

An asterix (*) in front of the species name means that all records received have been quoted.

For several species of waders and duck more information has been received than can be sensibly reported in full detail. In these cases I have mentioned the more striking individual records and summarised the rest for each month or half-month as the minimum number of birds that can reasonably account for the records, this means adding up the maximum numbers recorded for what I take to be distinct localities. These 'Area summaries' clearly have limitations, underestimating when an important locality has not been visited and overestimating if the same flock has been reported from two places that I have assumed to be separate; however, this is the best way of giving a more systematic description of the seasonal pattern of occurrence.

The following abbreviations have been used: AoT - apparently occupied territory, BoA - Bridge of Allan, c/n - clutch of n eggs, CP - Country Park, F - Female, GP - gravel pit, L. - Loch, NR - Nature Reserve, M. - Male, Res - Reservoir, SP - summer plumage, WG - Wildlife Garden, Y - young.

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SYSTEMATIC LIST

Codes - F and C indicate records from Falkirk and Clackmannan Districts, S and SWP those from one time Stirlingshire and south-west Perthshire parts of Stirling District.

RED-THROATED DIVER *Cavia stellata* (b,w)

- F 1 Dunmore 24 [an (DMB). 1 Blackness 6 Mar (CJH). 11 Skinflats 12 Dec (MVB).
 SWP Pair raised 2Y Loch E, 1 Loch G 23 [un, 1 Loch A 14 Jul (MT). 1 Balquhidder 4 May (DJP). 4 Trossachs 4 Sep (AMcl).

BLACK-THROATED DIVER *Cavia arctica* (b)

- F 2 Blackness 29 January (CJH).
 SWP 2 pairs regularly on Loch A 29 Apr -11 Aug but no signs of breeding (MT).

LITTLE GREBE *Tachybaptus mficollis* (B,w)

Certainly underrecorded in breeding season (Ed)

- F 1 Kinneil 10 Oct (AB). 2 on Forth-Clyde canal Underwood (Bonnybridge) in Oct & Nov (AS).
- C 10 pairs reared 14Y at Gartmorn (MC).
- S 3 Craigforth 5 Dec (DT). 2 North Third Res 13 Nov (WRB). 1 Airthrey 28 January, 3 pairs in May, 5 by late July, probably 7Y raised from 4 broods (MVB). 2 Cocksburn Res 2 May (CJH). 1 AoT Carron Valley Res 17 July QM).
- SWP 2 L.Venachar 1 & 28 Jan, 2 .Dochart 31 Jan (CJH).

GREAT CRESTED GREBE *Podiceps cristatus* (b,W)

Forth estuary: 623 on 7 Feb (DMB).

- F Kinneil: 296 on 7 Feb, 200 on 7 Mar, 25 on 14 Apr, 3 on 9 May (CJH DT); 19 on 11 Jul, 73 on 25th & 110 on 28th; 265 on 29th Aug, 73 on 10 Sep, 150 on 10 Oct & 213 on 31st (AB MVB HEMD CJH GO DT). 1 Skinflats 31 Oct, 65 on 21 Nov & 2 on 28th (AB MVB). 55 Blackness 25 January, 2 on 6 Mar (CJH). 5 Bo'ness 1 Sep (AMcl).
- C 5 Gartmorn 17 Jan (CJH), 1 pair summered - no successful breeding (MC).
- S 1 L.Coulter 14 Mar, pair on 18 April (CJH WRB). Carron Valley Res: 1 on 2 Apr, 5 pairs 17 Jul (2 on nests & 1 with 1Y, 3Y finally reared), 5 on 17 Oct (ad feeding large Y)(AFw AMcl JM DT).
- SWP 11 Lake of Menteith 21 February, 4 on 14 Mar, 1 on 5 Dec (CJH DT). Pair Cambusmore 15 Mar to 3 Jun. Pair Blairdrummond 16 May to 8 Jun (PWS). Pair L.Watson 11 Apr, with 2 juv 3 Sept (WRB PWS).

FULMAR *Fulmarus glacialis* (p)

- F 3 ->E Skinflats (GO) & 1->W Blackness 9 Sep (WRB).
- C 1 Cambus 21 March - under pylon, 1-2 weeks dead (CJH).
- S 1 ->E along scarp at Dumyat 18 Jun, appeared to fly up to a ledge on cliff and land (DMB).

GANNET *Sula bassana* (p)

- F Skinflats: 11 (9 imm, 1 2nd yr, 1 ad) on 9 Sep, 6 on 13th (GO). At Kinneil 1 imm on 29 Aug, 8 on 14 Sep (DMB); 1 imm Kinneil 15 Sep, stranded on mud with large gulls in attendance (DT).

CORMORANT *Phalacrocorax carbo* (S,W)

Forth Estuary: 696 on 18 Sep (DMB).

- F 183 Carronmouth 5 Jan, 200 on 24 Dec (AB GO). 325 Skinflats 18 Sep & 628 on 28 Nov (MVB).
- C S.Alloa: 250 on 8 Jan, 300 on 1 Feb, 170 on 19 Feb; 230 on 4 Sep & 300 on 26th PMB CJH PWS).
- S 10 Carron Valley Res 19 Dec (DT).
- SWP 4 Lake of Menteith 24 February (CJH). 3 over Thornhill 11 Sep (SS). 1 L.Lubnaig 2 Apr & 10 Nov (DJP). 1 L.Arklet 24 Apr (AMcl).

*SHAG *Phalacrocorax aristotelis (w)*

- F 8 Airth shore 28 Nov (CJH). (Unusual party, probably others on river and birds found dead in 1994, Ed).
 S 1 Airthrey 12 Oct - a very tame immature (CJH).

GREY HERON *Ardea cinerea (B,W)*

- F Skinflats max 17 on 29 Jun (AB GO). 4 Kinneil 3 Sep (GO). 10 Grangemouth 2 Nov (AMcl). 13 Kincardine Bridge 26 Dec (CJH). 36 Airth 15 Feb (PWS) & 42 Dunmore 14 Mar (AM).
 SWP 9 Blairdrummond 7 Feb. 19 at heronry Lake of Menteith 21 Feb (CJH), 25 apparently occupied nests 23 Apr of which 17 found to have been used on 10 Jul (RAB).

*SPOONBILL *Platalea leucorodia (v)*

- F 2 Skinflats 23 May. Heron size with long blackish legs and spatulate bills. Plumage primarily white, greyish white in places (no crests or yellowish on breast); one had small black tips to wings and the other a pinkish tip to bill, thus both 1st year birds. They were feeding in shallow saline pools with side to side sweeps of a slightly opened bill. When flying between pools the necks were extended and legs trailed and one bird carried a small fish. The birds were seen as close as 100m and last seen resting at the edge of a pool (DMB).

*CHILEAN FLAMINGO *Phoenicopterus chilensis*

- F 2 Kinneil 25 Jul (DMB DT).

MUTE SWAN *Cygnus olor (B,W)*

- F Skinflats: more frequent than usual, max 13 on 7 Feb & 5 until 1 May (AB GO RS). 2 Kinneil 4 Jun & 1 on 26 Nov (GO). Pair with 3 juv Jupiter WG in mid Nov (WRB). 4 pairs + 5 imm on canal Castlecary-Bonnybridge 26 Nov (AS).
 C Cambus: 6 (4 imm) on 9 Jan, pair 29 Mar, on nest 24 Apr, with 4Y 14 Jun - 31 Aug, pair & 5 imm on 30 Oct (WRB CJH AM). 2 pairs on R.Devon Menstrie to Alva, with 1 imm on 27 Dec (BRT). Pair reared 6Y at Gartmorn Dam (MC).
 S 32 (14 imm) by Forth at Taylorton 6 Apr (CJH). Pair Airthrey raised 5Y (SH). 8 Carron Valley Res 17 Oct (AM). SWP 2 pair Blairdrummond pool 7 Feb (1 chased away), 1 pair on 8 Jun; pair Lecropt 9 Feb (CJH PWS). 3 (1 imm) Kinbuck 30 Mar (BH).

WHOOPEE SWAN *Cygnus cygnus (W)*

- F 4 Airth 28 Mar (DT). 1 L.Ellrig 27 Sep (AM). Skinflats: 3 on 31 Jan, 5 on 7 Feb, 1 imm on 25 Apr. 7 on 17 Oct; 5 (flew off to SW) on 10 Nov & 17 on 14th (AB DMB HEMD GO). 20 in stubble W Carmuir 2-24 Nov (AS).
 C 19 Menstrie 25 & 26 Dec (BRT). Max 64 Gartmorn Dam 17 Mar (MC).
 S 92 Kippen 23 Jan (DT). 5 L.Laggan 5 Feb, 10 Gargunnoch 15 Mar (DT). 10 ->SW Airthrey 12 Feb & 13 ->SW on 19 Mar (DMB MVB). 27 North Third Res 20 Feb, 15 L.Coulter 14 Mar (WRB). 2 Carron Valley Res 19 Dec (DT).

SWP 32 L.Dochart 31 Jan, 40 on 14 Mar & 25 on 21st; 6 .Venachar 28 Jan (DMB CJH C&AS). 5 (3 imm) L.Lubnaig 15 Feb-14 Mar, 3 imm Doine 14 April (DJP); 3 L.Voil 30 Mar (MT). 15 L.Achray 27 Feb, 6 Gartmore 30 Mar, 14 L.Katrine 21 Mar & 26 on 28th, 15 on 9 October; 4 L.Dhu 22 Oct (HR MT). 31 Lecropt 24 Jan (DT), 5 on 18 Dec, 7 on 23rd (MVB). 33 Thornhill 26 Jan & 27 on 28 Oct, 14 Bridge of Frew 18 Nov (SS MT); 18 ad East Garden 5 Dec, 17 Craigforth 4 Dec & 13 (1 Imm) on 5th pMB DT).3 L.Doinel7 Nov & L.Voil on 30th (DJP). Usual Drip Moss sites seem to have been deserted (Ed).

*BEWICK'S SWAN *Cygnus bewicki* (w)

S 2 Kippen (Fordhead) 23 Jan, with Whoopers DT).

SWP 2 (with 3 Whoopers) L.Voil 30 Mar (AA).

PINK-FOOTED GOOSE *Anser brachyrhynchus* (W)

Report on whole area based on Central Scotland Goose Group and many other observers, summarised by MVB : Numbers in the Forth valley were low to average from Jan to Apr. Monthly maxima at the west end of the carse in the Lake of Menteith/Flanders Moss area were 3000 in early Jan, 4000 on 18 Feb and 2309 on 22 Mar (EB,SS). 1500 were still present at Loch Macanrie on 23 Apr (DT) but a complete count was not attempted that month. At the east end of the carse very few birds commuted from Strathallan, the 650 at Lecropt on 1 Jan and 2070 near Offers on 20 Mar were isolated flocks (MVB WRB DT). The last skein of spring was 50 ->W at Airthrey on 5 May (CJH). In autumn the first flock was 11 at Thornhill on 23 Sep and 3000 were there on 5 October (SS). 2440 roosted at Lake of Menteith on 17 Oct but numbers were much lower thereafter and none were found on the mid-November count; 360 near Thornhill on 13 Nov roosted elsewhere (MVB SS). In mid December an SNH/RSPB survey team found a minimum of 2100 birds in the area with at least 1500 roosting on Loch Rusky and 300 each at Flanders Moss and Lake of Menteith. Only small numbers used Loch Mahaick this autumn with 120 on 17 Oct and 600 on 13 Nov (MT). Very variable numbers fed at the east end of the carse at the year end with the largest flocks 3550 Lecropt on 23 Nov (following snow in Strathallan) and 2200 there on 26 Dec (MVB DMB WRB DT).

There was a large count of 4930 in the Kincardine-Clackmannan-Throsk area on 24 Jan (MVB DMB). Over 1000 remained into February with 1000 at Skinflats on 7th and 1100 at Alloa Inch on the 14th but the area was not checked thoroughly later in the spring. In autumn the first were 22 at Skinflats on 8 Oct and the roost held 2010 on 16 Oct and 2051 on 14 Nov. Later 1000 were at Plean on 24 Dec (DMB). Away from the main areas small numbers were noted on the Slamannan plateau with 47 Shieldhill on 19 Jan and 50 Fannyside on 8 Oct (AMcl). 4 late birds were at Loch Katrine from 1-22 May (RAB).

BEAN GOOSE *Anser fabalis* (W)

- F 150 Falkirk 16 Jan, stubble with Greylags (AMcl). In the main area around Slamannan there were 63 on 16 Jan, 72 on the 17th (137 if two separately reported groups were different) & 50 on 30th (GO AMcl SS MW). First of autumn were 50 on 4 Oct rising to 131 on the 19th, max in Nov was 100 and in Dec 139 (SH AMcl GO JS SS TDS MW). The flock is very mobile (TDS) and it is apparent from the records that it splits up and reforms repeatedly (Ed).
- S 42 Carron Valley Res 14 Oct, 93 on 16th & 84 on 17th (DF AMcl JS DT).
No strong reason to suppose these are a separate group to the main population in Falkirk District (Ed).

*WHITE-FRONTED GOOSE *Anser albifrons* (w)

- F 1 Slamannan 12 Dec (AMcl), 3 - Greenland form- on 19th (JS).
C 13 Alloa Inch 7 Feb - Greenland form (DMB).

GREYLAG GOOSE *Anser anser* (b,W)

Report on whole area based on Central Scotland Goose Group and many other observers, summarised by MVB : more than normal in Forth valley early in the year though, as usual, it was impossible to link feeding flocks with roosts. Most of the birds fed in the Gargunnoch area where there were peaks of 2000 on 23 Jan and 1550 on 20 Mar. In autumn 530 were at Drip Moss on 24 Oct and 730 on 13 Nov when 90 were also at Thornhill (MVB MT DT).

Several hundred were present in the Skinflats to Alloa area at both ends of the year but in the absence of coordinated counts it was difficult to sort out duplication of flocks. 600 were at Alloa Inch on 31 Jan and smaller numbers remained at the Inches to April with 25 on 11th the last (DMB). The peak at Gartmorn was 210 on 10 Feb (MC). There were 190 at Skinflats on 24 Jan and 4 late birds over Grangemouth on 6 May (WRB). In autumn only low numbers were noted at Gartmorn (MC) but 260 were feeding at Clackmannan on 21 Nov with 445 there on 12 Dec and 100 Alloa Inch on 26 Dec. 170 roosted at Skinflats on 14 Nov (DMB).

In the Slamannan area 200-300 were present at both ends of the year with 340 Loch Ellrig on 8 Jan (CJH), 67 had returned by 20 Oct and 300 were present on 14 Nov (AMcl); 210 near Avonbridge 10 Nov & 349 on 11th (TDS) may also be this group. Away from the main feeding areas there were 100 Loch Coulter on 14 Nov (WRB) and 1 Loch Katrine 12 -18 May (RAB), whilst 47 flew high SW at Dollar on 24 Dec (CJH).

CANADA GOOSE *Branta canadensis* (b)

- C 2 Tullibody Inch 23 & 25 Jul, 1 Aug & 4 Sep (DMB WB CJH).
SWP 9 Blairdrummond 7 Feb, 2 pairs 23 Mar, pair with 2Y 6 Jun pMB CJH WS). 2 Kinbuck 30 Mar (BH). Pair Ashfield 6 Mar to 10 Apr (WRB).

BARNACLE GOOSE *Branta leucopsis* (w)

- F 1 Kinneil 8,9 May (HEMD CJH GO). Skinflats: 172 on 21 Sep - flock rested at tideline then flew off high to SW (GO); 2 on 26 Sep & 21 on 28th, 36 on 16 Oct, 11 on 13 Nov (AB DMB GO). 19 Kincardine Bridge 19 Oct & 1 on 29th (MW DF). 1 L.Ellrig 16 Oct (SH).
- C 2 Clackmannan 24 Jan. 1 Tullibody Inch 28 Jul & 2 on 26 Sept (DMB).
- SWP Lecropt: 15 on 17 Jan, 1 on 1 Jan, 23 & 27 Nov, 12 & 18 Dec, 1 Thornhill 30 Jan & 5 Dec; often with Pinkfeet (DMB MVB WRB DT).

SHELDUCK *Tadorna tadorna* (b,W)

- Forth Estuary: 4283 on 18 Sep (DMB).
- F Skinflats: 500 on 8 Jan & 423 on 7 Feb. 1200 on 12 Sep, 1380 on 31 Oct, 1050 on 28 Nov, 551 on 12 Dec (AB DMB MVB PWS). 165 on pools 4 Apr, 200 on 8 May & 68 on 28 May (AB HEMD CJH). 5603 Kinneil 7 Aug (DMB). Kinneil pool: 90 on 4 May & 70 on 8th (HEMD CJH), 15 ducklings on 1 June (GO), 4 broods (total 19) on 11 July plus 22 well grown young (DT). F killed by car Linlithgow Bridge in early June, brood of 9 taken to Jupiter WG, fledged in late July (WRB). 161 Kennetpans 28 Nov (CJH).
- C 20 Tullibody Inch 11 Apr, on 11 Jul 60 ad plus pair with 11 small Y, 54 juvs on 1 Aug (DMB CJH). 2 Cambus 17 Apr to 22 May (SH).
- SWP 2 Lake of Menteith 14 Mar (DT).

WIGEON *Anas penelope* (b,W)

- Forth Estuary: 1634 on 12 Dec (DMB).
- F 250 Kinneil 3 Jan, 86 on 6 Mar; 180 on 28 Nov, 223 on 5 Dec & 435 on 31st (AB MVB GO DT). Last in spring Skinflats 25 Mar, 1st in autumn 21 Sep (GO). 165 Carriden 12 Dec (DMB), 202 Kincardine Bridge 31 Dec (MVB). 3 L.Ellrig 20 Feb (WRB).
- C Max 1260 Gartmorn 16 Jan (MC), 300 on 27 Feb. 205 Tullibody Inch 7 Feb. 160 Alloa Inch 19 Feb, 180 on 14 Nov & 221 on 31 Dec (DMB MVB CJH). 3 Cambus 28 Aug (SH).
- S 50 Carron Valley Res 11 Sep, 15 on 17 Oct (AMcl DO). 28 North Third Res & 4 L.Coulter 13 Nov (WRB).
- SWP Cambusmore: 200 on 12 Feb, 500 on 10 Mar & 600 on 15th & 18th; pair on 3 Jun (PWS). 10 L.Venachar 1 Jan (CJH). 2 Kirkton Glen 4 May (DJP). Pair Muir Dam 6 June (DMB).

*AMERICAN WIGEON *Anas americana*

C M Gartmorn Dam 17 Jan, 6 & 14 Feb, present till March (WB MC AF CJH). Presumably same bird that was seen in 1992 (Ed).

*GADWALL *Anas strepera* (p)

- F Skinflats: Pair on 26 Apr, 28 May & 11 June (AB GO).

TEAL *Anas crecca* (B,W)

- Forth Estuary: 1437 on 7 Feb (DMB).
- F Kinneil: 260 on 3 Jan, 140 on 7 Mar, 170 on 4 Apr; 190 on 17 Oct (DT).

Skinflats:184 on 7 Feb, 80 on 18 Sep & 130 on 12 Dec (MVB). 545 Grangemouth 12 Dec (DMB). M Skinflats on 2 Jul & 4F on 8th - unusual late (or early ?,Ed) records (GO). 26 Parkfoot Marsh 23 Nov (AS).

- C 208 Tullibody Inch 24 Jan , 180 on 7 Feb (DMB). 16 Devonmouth 14 Apr. Pair Cambus 25 Apr (SH). 6 Cambus 21 Aug (WRB). 50 Kennetpans 26 Dec (CJH). Max 180 Gartmorn Dam 18 Dec (MC).
- S Pair Lower Earlsburn Res 11 Apr (DT). F Airthrey 10 Dec (DMB) - *a rarity here* /(Ed)
- SWP 20 L.Venachar 1 Jan (CJH). 30 Blairdrummond 23 Mar (PWS). Pair at 400m, Monachyle Glen 5 May (DJP). 38 Cromlix 14 Nov (WRB).

MALLARD *Anas platyrhynchos* (B,W)

Forth Estuary: 1006 on 12 Dec (DMB).

- F Skinflats: 260 on 24 Jan,195 on 7 Feb, 260 on 18 Sep, 334 on 12 Dec (MVB); Broods of 9 on 7 May & 5 on 18 Jul (GO). 200 Kinneil 3 Jan (DT). 27 L.Ellrig 20 Feb (WRB).
- C 3 pairs nested Cambus (WRB). 10 (5Pr) on R.Devon at Alva 25 Dec (BRT).
- S 47 L.Laggan 6 Feb (DT). 81 North Third Res 14 Nov (WRB). 654 Airthrey 17 Jan & 626 on 28th, 64 on 20 Mar; 550 on 19 August (MVB SH); probably 40 pairs nested, 1st brood 26 Mar but a bad breeding season with heavy losses of ducklings - Possibly food shortage ? (MVB).
- SWP 170 L.Venachar 1 Jan, 160 Blairdrummond 7 Feb (CJH). 300 Cambusmore 12 Feb (PWS). Pair at 600m Kirkton Glen 17 Feb (DJP). 150 L.Watson 3 Sep, 62 Cromlix 14 Nov (WRB).

PINTAIL *Anas acuta* (W) Forth Estuary: 99 on 7 Feb (DMB).

- F Skinflats: 65 on 24 Jan, 99 on 7 Feb, 82 on 7 Mar, few after 25 Mar and last a pair on 22 Apr. 9 on 15 Sept, 35 on 31 Oct, 55 on 28 Nov, 59 on 12 Dec & 69 on 31st (AB MVB GO DT). 59 Grangemouth 27 Nov (DMB). Kinneil: 11 on 5 Apr, 8 on 12th & 7 on 22nd; 8 on 29 Aug, 5 on 15 Sep, 14 on 17 Oct, M on 5 Dec (DMB GO CJH RS DT).

Area Summary

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
65	99	82	14	8	14	49	59	70			

*GARGANEY *Anas querquedula* (p)

- F M Skinflats 4 to 7 May (AB WRB HEMD GO RS).

*SHOVELER *Anas clypeata* (p)

- F Pair Skinflats 9 May & M on 23rd; M on 3 Jun & pair on 11th, 2 on 16 Aug & 20 Sep (AB DMB GO). 1 Grangemouth 12 Sep; Kinneil: M on 1 Apr, 2 on 25 Jul & M on 12 Dec (DMB RS).
- C Pair Cambus 17 to 26 Apr (CJH SH), M on 30th (WB); 1 on 21 Aug (WRB). 5 (3M) Gartmorn 6 Sep & 11 Oct (WB MC).

POCHARD *Aythyaferina* (W)

- F M Grangemouth 25 Jul (DMB). 2 Skinflats 6 Feb (GO). 5M Kinneil 29 Aug (DMB).
- C 30 Gartmorn 27 Feb, 54 on 23 Oct (WRB CJH).
- S M Airthrey 18 Mar (DMB). 6 North Third Res 14 Nov (WRB). 15 Can-on Valley Res 11 Sep, 40 on 17 Oct & 19 on 19 Dec (AMcl GO DT).
- SWP 20 L.Venachar 28 Jan (CJH). Loch Voil: 30 on 16 Jan, 14 on 15 Feb, 6 on 11 Mar; 5 on 12 Nov. 10 L.Lubnaig 10 Nov (DJP). Pair Blairdrummond 23 Mar (PWS).

TUFTED DUCK *Aythyafuligula* (B,W)

- F Pair Skinflats 16 Apr (GO). 1 Kinneil 22 Apr (RS).
- C 3 Cambus 14 Apr (CJH), 6 on 19 May (AMcl), 2 on 29 Aug (SH). M on R.Devon at Alva 25 Dec (BRT).
- S 61 Airthrey on 17 Jan, 45 on 20 Mar (SH). Pair L.Coulter 18 Apr (CJH). 10 Carron Valley Res 28 Jul, 38 on 11 Sep (CJH DO). 15 North Third Res 14 Nov (WRB). SWP Cambusmore: 20 on 12 Feb, 10 on 10 Mar, 6 pairs on 3 Jun (PWS). 22 Doune Ponds 23 Feb (WRB). Blairdrummond: 17 on 7 Feb, 40 on 23 Mar, 9 pairs on 16 May, 12 pairs on 8 Jun (CJH PWS). 20 Pairs L.Watston 11 April (PWS). 5 Argaty 24 Jun (PWS). 2 broods of 8Y & 2Y Ashfield in late Jul (WRB).

*SCAUP *Aythya mania* (w)

- F 4 Bo'ness 24 Mar. Kinneil: 2 on 4 Jan & 23 Apr, 1 on 9 May, 3 on 7 Aug & 11 on 21st, 1 on 28 Nov, 5 & 19 Dec. Skinflats: 1F on 31 Jan; 5 to 7 Feb. (AB DMB MVB HEMD CJH GO DT).

*EIDER *Somateria mollissima* (w)

- F Blackness: 23 on 29 Jan, 10 on 6 Mar, 14 on 12 Apr (CJH). 2 Kinneil 6 Mar & 22 Apr, 1 on 26 Nov (AB GO RS). 4 Carronmouth 25 Apr (WRB). 2M Skinflats 2 May (DMB). Pair Carronmouth 12 Dec (MVB).

*LONG-TAILED DUCK *Clangula hyemalis* (w)

- F 1 Skinflats 10 & 13 Oct (AB GO RS).

*COMMON SCOTER *Melanitta nigra* (v/w)

- F 50 Kinneil, all F/imm, 28 Nov (DT); 4 Skinflats 31 Oct & 14 on 28th (AB DO GO).

GOLDENEYE *Bucephala clangula* (W)

- Forth Estuary: 208 on 7 Feb (DMB).
- F 9 Carriden 12 Dec (DMB). 11 Skinflats 7 Feb & 17 on 31 Oct (MVB), 9 on Pools 14 Mar & 5 on 28th (AB DT).
- C 58 Gartmorn Dam 17 Jan (MC). 50 Alloa Inch 8 Jan & 68 on 24th, 54 Tullibody Inch 7 Feb (DMB PWS), 18 (11M) Cambus 20 Feb & 14 (9M) on 24th, 10 on 11 Apr & 5 on 14th; 20 on 26 Dec (CJH BRT). 5 Cambuskenneth 10 Feb (CJH). 3 Carron Valley Res 17 Oct (DT). SWP Lake of Menteith: 48 on 21 Feb, 36 on 15 Mar, 73 on 11 Apr (WRB CJH DT). 5 L.Dochart 31 Jan (CJH). 3 L.Voil 1 Mar (DJP). 25 L.Venachar 1

Jan & 19 on 28th; 12 Cambusmore 12 Feb & 10 (5 pairs) on 15 Mar; M Blairdrummond 7 Feb & 8 Jun (CJH PWS).

RED-BREASTED MERGANSER *Mergus senator* (B,W)

Forth Estuary: 208 on 7 Feb (DMB).

F Skinflats: 103 on 7 Feb, pair on 25 Mar; 130 on 31 Oct, 338 on 28 Nov & 112 on 12 Dec (MVB GO). 13 Kinneil 7 Feb & 59 on 7 Mar (DT). 135 Kennetpans 12 Dec (DMB). 15 Blackness 6 Mar (CJH).

C Pair Cambus Pool 9 & 10 Apr, M on 26th (WB CJH SH).

SWP Pair Blairdrummond 16 May & 11 Jun; F + 6Y L.Venachar 12 Jun (PWS). 2 Pairs Ashfield 24 Apr, F + 4 large Y late July (WRB). F + 6Y Dunblane 4 Aug (BH).

GOOSANDER *Mergus merganser* (B,W)

Forth Estuary: 27 on 12 Dec (DMB).

F Skinflats: 17 on 5 Jan, 19 on 7 Feb, 16 F/imm on 25 Apr, 9 on 18 Sep, 46 on 28 Nov & 26 on 12 Dec (WRB MVB GO). 7 Skinflats Pools 28 Mar, 16 on 13 Apr & 22 on 18th, 9 on 5 May; 5 on 28 & 30 Sep, 7 on 10 Oct (AB GO DT). 4 Carronshore 19 May & 27 Dec (AB).

C 6 Tullibody Inch 19 Feb (CJH). 5 Cambus Pool 19 May (AMcl). 7 Cambus 31 Oct (WB) & 4 on 26 Dec (BRT).

S 7 L.Laggan 6 Feb (DT). 4 Carron Valley Res 17 Oct, 8 (4M) Cambuskenneth 28 Oct (CJH AMcl).

SWP 3 L.Voil 5 Jan & 2 on 1 Mar (DJP). F L.Arklet 21 Apr (AMcl). 4 Cambusmore 10 Mar (PWS). Pair Goodie Water 10 & 12 Apr 0S). 1 Blairdrummond 7 Feb & 23 Mar, pair on 16 May (CJH PWS). 2 Lake of Menteith 21 Feb, 3 (2M) on 21 Apr (CJH AMcl). Max 5 Ashfield Nov-Dec (WRB). Pair on R.Allan Dunblane Jan & Apr, 4F on 22 Oct; 10 between there and BoA on 26 Oct, 4 on 7 Nov & 4 (1M) on 4 Dec (BH). F + 16 Y on RTeith 11 Jun (PWS).

* RUDDY DUCK *Oxyura jamaicensis* (b)

SWP 2 pairs L.Watson 11 Apr, 7 (4M) on 7 Jun, 2 F/imm on 3 Sep (WRB DMB PWS). 4F Doune Ponds 18 Sep (WRB).

HEN HARRIER *Circus cyaneus* (b?,W)

F Slamannan area: 1 on 19 Nov, 7 & 18 Dec (AMcl TDS); 3 on 19 Dec (JS).

C 1 Gartmorn 7 Jan (DT).

S M Cambuskenneth 25 Jan (CJH). 1 Garguncock 5 Dec; M Carron Valley Res 16 Aug, 1 ringtail Aug-Nov (AFw) & 1 on 12 & 19 Dec (WRB DT). SWP Thornhill-Flanders Moss: 2 on 26 Jan, 1 on 7 Feb & M on 11th, M on 27 Mar, M16 & 24 Sep, 8 Oct, M&F on 9 Oct (DO JS SS). 1 Sheriffmuir 10 Oct; M Blairdrummond 5 Dec (MVB). None seen Braes of Doune, persecution suspected (WRB).

GOSHAWK *Accipiter gentilis*

F F Kinneil 1 May (RS).

SWP 1 with Raven over Ashfield 14 Nov (WRB).

SPARROWHAWK *Accipiter nisus* (B,W)

- F Through year at Jupiter WG (WRB). Pair raised 3Y Skinflats (AB DMB GO). Used nest Howierigg (ASt). 1 Dunmore 15 Mar, Falkirk 28 Jun & 4 Sep, Bo Bo'ness 18 Jul, Slamannan 14 & 19 Nov & 12 Dec (AMcl).
- C Pairs bred Wood Hill (3Y), Birkhill (4Y), Gartmornhill (3Y) (MC). 1 Cambus 23 Jul (WB). F flushed from remains of Dunlin at Tullibody Inch 19 Oct (CJH).
- S In Stirling garden M on 8 & 10 Apr (once on bird table); F caught Blackbird 18 July, chased by corvids 21 & 23 Oct (RJ).
- SWP 2 L.Ard Forest 23 May (CJH). Through year at Dunblane, chased by Carrion Crows in Jan (BH).

BUZZARD *Buteo buteo* (B,W)

- F 1 ->E Skinflats 27 Feb (AB). 1 Kinnaird Jan-Mar & Nov - Dec (WRB DT). 4 Dunmore 14 Mar & 2 on 15th (AMcl). 2 Letham in Mar (per RAB). C 1 Gartmorn 17 Jan (CJH). 1 Forestmill 24 Apr (RS). 1 Alva Glen 26 Jun (WRB). Pair reared 2Y Dollar (MC).
- S 3 AoT Carron Valley Forest (AFw). Pair Plean 10 Apr, 1 on 3 Sep & 17 Oct; 1 Stirling on 16 Nov (DT). 1 BoA 11 Oct - watched flying WSW for 8 km (CJH). 2 pairs diving at each other Cocksburn Res 2 May, 1 bird 24 Oct (CJH); 5 pairs Airthrey - Doune in summer (DMB).
- SWP 4 AoT in May-Jun in 5 sq km, L.Ard Forest (CJH). Blairdrummond: 4 pairs + 1 on 31 Mar. 6 Hill of Row 7 Feb. Lake of Menteith: 3 AoT 21 Feb + another on 2 Apr (CJH). Thornhill: 13 Jan (pair), 27 Mar, 13 Apr, 20 Dec (CJH SS). 1 Flanders Moss 7 Feb (SS). Braes of Doune: 5 AoT Cambusbeg - Argaty Feb-Apr (CJH PWS). 2 AoT Kilbryde 4 Apr. 3 Keir 3 Jan (WRB). 1 Dunblane 4 Apr & 27 Sep. 3 Cromlix 17 Feb (BH). At Balquhidder Apr-Nov (DJP).

GOLDEN EAGLE *Aquila chrysaetos* (b,w)

- SWP Overall: 9 ranges checked, 7 pairs & single bird, 3 successful pairs raised 3 Y (PS-A). 2 Stronachlachar 21 Apr (AMcl). 2 Balquhidder Apr-Oct (DJP). 2 Ben Ledi (1 ad, 1 sub-ad) & 1 Meall Cala 28 Nov (WRB).

OSPREY *Pandion haliaetus* (p)

- C 1 Gartmorn Dam 3 & 7 Sep (MC). SWP First seen Trossachs 31 Mar (DT), 1 Gargunnoch early August, 1 Callander 17 Aug (per MT).

KESTREL *Falco tinnunculus* (B,W)

- 7 regularly hunting along M9 Keir- Grangemouth (WRB), 8 on 8 Oct (BH).
- F M at Jupiter WG till late March, when nest box erected; 5 Denny quarry (? family) in July (per WRB).
- C Bred Woodhill (3Y), Fishcross (3-4Y), Tillicoultry 2Y, Alva Glen 2Y (MC).
- S 1 chased by Peregrine at Blairlogie 7 May (BRT).

*MERLIN *Falco columbarius* (b?,w)

F 1 Slamannan 11 Dec (TDS).

C 1 ForestmU114 Feb (DT). 1 Yetts of Muckhart 15 Oct (RJ). 1 Airthrey 1 Feb (DMB).

SWP 1 Ashfield 13 Nov (WRB). 1 Thornhill 27 Dec (CJH).

PEREGRINE *Falco peregrinus* (B,W)

F Kinneil: Pair on 13 Jun; 1 on 10 Aug, 9 Sep, 10 Oct (AB GO RS DT), on 15 Sep one forced a Blacktailed Godwit down into rough water on the estuary then flew on (DT). 1 Skinflats 5 Feb, 12 & 29 Aug, pair on 11 Nov (AB GO RS). 1 Grangemouth 2 Nov (AMcl). (3 pairs raised 7Y (PS-A). 2 swooped on Woodpigeons at Glenochil 25 Dec. 1 Cambus 26 Dec, 1 imm at Gogar on 30th landed in field disturbing Starlings & thrushes (BRT). 1 Stirling 17 Mar (DJP).

SWP 16 ranges checked, 12 pairs & 3 single birds; 6 successful pairs reared at least 12 Y (PS-A). 1 Thornhill 9 Apr, 27 Dec (CJH JS). M Blairdrummond 31 Mar (CJH).

RED GROUSE *Lagopus lagopus* (B,W)

SWP Few on Braes Doune above Cromlix 17 Apr (WRB). 2 Sheriffmuir 23 & 31 Jan (WRB RS).

*PTARMIGAN *Lagopus mutus* (b,w)

SWP 2 Glen Gyle 3 Jan (PWS). 1 at 800m Kirkton Glen 4 May (DJP).

BLACK GROUSE *Tetrao tetrix* (B,W)

S M & 2 F Carron Valley (W) in May (AFw).

SWP Lek at Ardeonaig (L.Tay): 6 on 23 Feb, 13 (IF) on 8 May. 1 Callendar, dead under wires, 26 Feb (PWS). 3M Lake of Menteith 5 Aug (DT). 4M Glen Casaig 28 Nov (WRB). Max 2 Kirkton & Monachyle Glens Mar-Nov (DJP).

*CAPERCAILLIE *Tetrao urogallus* (b,w)

SWP F L.Ard Forest 31 Jul (CJH).

GREY PARTRIDGE *Perdix perdix* (B,W)

F Through year at Skinflats, max 16 on 28 Sep (AB). 10 on saltmarsh S.Alloa 1 Feb (PWS). 13 on saltmarsh Powfoulis 24 Jan (MVB). 7 Kinneil 7 Feb (DT). 1 Slamannan 6 Mar & 2 Dunmore 27 Jun (AMcl). 4 Bonnybridge 8 Nov (AS).

C 2 Cambus 25 & 26 Apr, 7 on 26 Dec (SH BRT). Autumn coveys of 12 Gartmorn & 14 Cambus (MC). 10 by Devon, Dollar, 24 Dec (CJH). SWP 6 Lecropt 17 Feb (CJH). 2 pairs Ashfield Nov-Dec (WRB). In stubble: 14 Drip Moss 22 Nov, 18 Thornhill 20 Dec (CJH).

QUAIL *Coturnix coturnix*

F 1 calling Bonnybridge 16 Jul (ASt).

PHEASANT *Phasianus colchicus* (B,W)

S several reports from gardens in Stirling (RJ et al).

*WATER RAIL *Rallus aquaticus* (w)

- F 1 Bonny Marsh 27 Oct (AS).
 C 5 Tullibody Inch 4 Sep (DMB). 1 Cambus 30 Oct & 2 Nov (CJH).

MOORHEN *Gallinula chloropus* (B,W)

- S 51 Airthrey 20 Feb & 22 on 11 Nov, 16 territories but only 7Y fledged due to Mink (MVB SH).

COOT *Fulica atra* (B,W)

- F Pair raised 3Y Skinflats (GO). 1 Kinneil 8 Aug (DT).
 S Pair L.Coulter 14 Mar (WRB). 81 Airthrey 17 Jan, 20 pairs but only 4Y fledged due to Mink (MVB SH).
 C 8 Cambus Pool 20 Feb, 3 nests 14 Apr (CJH). 1 on Forth at Alloa Inch 4 Sep; 1 Kennetpans 27 Nov - left cover weakly to Forth (DMB). SWP 379 Lake of Menteith 5 Dec (DT).

OYSTERCATCHER *Haematopus ostragrus* (B,W)

- 804 Forth estuary 24 Jan (DMB).
 F 175 Kinneil 3 Jan, 115 on 29 Aug (DMB DT). Skinflats: 83 on 7 Feb, 90 on 5 May & 64 on 4 Aug, 65 on 28 Nov & 67 on 12 Dec (AB MVB). 63 Higgins Neuk 6 Mar (CJH).
 C Nightflying Menstrie 10 Feb, several on 11th (BRT). 60 Tullibody Inch 19 Feb, 20 on 23 July; 120 Cambus 15 May & 63 on 26th (CJH).
 S 2 Craigforth 30 Jan, 200 on 17 Feb; 150 Cambuskenneth 10 Feb; nightflying Stirling 6 Feb, BoA on 9th (WRB CJH DT). Pair bred on Stirling University roof, carried worms to young.
 SWP 3 Lecropt 17 Jan (DMB). 30 Cambusmore on 12 Feb, 200 on 10 Mar & 600 on 15th. Blairdrummond: 80 on 31 Mar, 50 on 16 & 24 May, 8 Jun (PWS). 50 L.Watson 11 Apr, 50 Argaty 20 Apr, 18 & 23 May, 100 on 24 Jun (PWS). Nightflying Dunblane 7 Feb (MVB). Ashfield-Kinbuck: 2 on 1 Feb, 40 on 22 Mar & 200 on 30th, 105 on 11 Apr, 10 on 27 May (WRB BH). 1 nested by edge of A9 at Keir (WRB).

RINGED PLOVER *Charadrius hiaticula* (b,W)

- 66 Forth estuary 18 Sep (DMB).
 F Skinflats: 4 on 14 Mar, 30 on 30 May, 20 on 4 Jun & 5 on 26th, 12 on 18 Sep & 31 Oct (AB MVB GO). 9 Kinneil 3 Sep (DT). Heard at opencast site Howierig 19 Jul (ASt).
 S Pair + 1 Lower Earlsburn Res 11 Apr (DT).
 SWP 2 Argaty 20 Apr & 1 on 23 May; 1 Blairdrummond 24 May; 2 L.Tay (W) 23 Jun (PWS).

*DOTTEREL *Charadrius morinellus* C

- 1 Ochils 20 Jun (MC).

GOLDEN PLOVER *Pluvialis apricaria* (B,W)

- 609 Forth estuary 18 Sep pMB).
 F Skinflats: 40 on 7 Feb; 10 on 3 Sep, 70 on 4th, 105 on 18th & 100 on 20th & 28th, 570 on 31 Oct, 51 on 11 Nov (AB DMB MVB GO DT). 130 Slamannan 16 Oct (AMcl), 35 on 10 Nov, 14 on 22nd (DO TDS). 11 609 Forth estuary 18 Sep pMB).
 F Skinflats: 40 on 7 Feb; 10 on 3 Sep, 70 on 4th, 105 on 18th & 100 on

20th & 28th, 570 on 31 Oct, 51 on 11 Nov (AB DMB MVB GO DT). 130 Slamannan 16 Oct (AMcl), 35 on 10 Nov, 14 on 22nd (DO TDS). 11 Avonbridge 15 Nov (AMcl).

SWP 1 Flanders Moss on 27 Mar, 10 ->E Thornhill 9 Apr (SS). 4 Ardeonaig 2 Jun (PWS).

GREY PLOVER *Pluvialis squatarola* (W)

88 Forth estuary 18 Sep (DMB).

F Skinflats: 17 on 18 Jan, 5 on 30 May; 1 on 2 Sep, 50 on 18 & 20 Sep & 225 on 28th, 200 on 15 Oct, 181 on 17th, 88 on 30th & 73 on 31st, 13 on 2 Nov (AB DMB MVB AMcl GO). 1 in SP Kinneil 7 Aug, 2 on 21st, 61 on 17 Oct (DMB MVB DT).

C 4 Tullibody Inch 26 Sep (DMB) - *scarce so far up estuary* (Ed)..

LAPWING *Vanellus vanellus* (B,W)

3692 Forth estuary 18 Sep (DMB).

F 25 Darnrig Moss 20 Feb (WRB). 50 Slamannan 14 Nov (AMcl). Kinneil: 300 on 3 Jan, 180 on 15 Sep, 400 on 2 Oct, 8 Pairs on 23 May (DMB DO DT). Skinflats: 300 on 7 Feb, 590 on 18 Sep, 450 on 31 Oct, 500 on 2 Nov & 625 on 12 Dec (MVB AMcl). 100 Skinflats Pools on 18 Jul (AB), 2 pairs (WRB).

C 750 Cambus 9 Jan, 700 on 20 Feb, 107 on 26 Dec; 3 AoT on 10 May; 2 AoT Craigrie 21 Mar (WRB CJH BRT). Tullibody Inch: 360 on 19 Feb, 400 on 23 Jul, 1320 on 1 Aug & 2000 on 26 Sep (DMB CJH).

S 8 pairs Bandeath 8 May (DMB). 200 Kincardine Bridge 8 Jan, 500 S.Alloa 1 Feb & 500 Airth on 15th (PWS).

SWP 2 pairs Bows, fewer at Ashfield and poor success due to removal of rushes (WRB). 10 Cambusmore 12 Feb, 50 on 10 Mar & 200 on 15th. 50 Argaty 10 Mar & 20 on 24 Jun. 20 Blairdrummond 8 Jun (PWS).

KNOT *Calidris canutus* (W)

7240 Forth estuary 12 Dec (DMB).

F Kinneil: 1200 on 3 Jan; 1 (imm) on 8 Aug & 20 on 21st, 10 on 12 Sep, 3000 on 27 Nov, 4460 on 12 Dec & 4700 on 31st (DMB MVB DT). Skinflats: 200 on 8 Jan, 7 on 16 May; 3 on 23 Aug, 11 on 18 Sep, 200 (on pools) 15 Oct, 650 on 17th, 1320 on 31st (AB DMB MVB PWS).

C 1 Cambus 9 Aug (WB).

*SANDERLING *Calidris alba*

F 1 Skinflats 23 Apr (GO).

*LITTLE STINT *Calidris minuta* (p)

F 1 (imm) Skinflats 1 Sep, 1 on 20th (GO RS). 1 Kinneil 12 Sep (DMB).

CURLEW SANDPIPER *Calidris ferruginea* (p)

F Skinflats: 1 on 7 May, 1 (ad in moult) Skinflats 6-19 Aug, 4 on 25th & 2 on 28th; 1 imm on 2 Sep, 1 on 12th, 3 on 20th, 8 on 21st, 1 on 28th; 2 on 17 Oct (AB DMB GO RS). Kinneil: 9 on 3 Sep, 2 on 12th & 1 on 26th PMB GO DT).

Area Summary (half monthly)

May -	Aug	Sep	Oct
1	0	1	4
		10	9
		0	2

DUNLIN *Calidris alpina* (b?,W)

5002 Forth estuary 12 Dec (DMB).

F Kinneil: 250 on 3 Sep, 1200 on 27 Nov & 600 (several birds oiled) on 28th, 1355 on 12 Dec, 4550 on 31 Dec (DMB MVB DT). 4380 Grangemouth 27 Nov (DMB), 500 Higgins Neuk 17 Oct (CJH). Skinflats: 1700 on 7 Feb; 1 on 26 June, 4 from 3 Jul (GO), 450 18 Sep, 16 on 31 Oct, 600 on 2 Nov, 3800 on 28 Nov, 2940 on 12 Dec (MVB AMcl).

C 66 Tullibody Inch 19 Feb (CJH).

RUFF *Philomachus pugnax* (p)

F Kinneil: 1 on 2, 8 & 19 Aug; 3 on 3 Sep & 1 on 12th (DMB GO RS). Skinflats: 1 on 25 & 27 Apr (GO), 1 on 8, 12 & 15 Aug, 2 on 22 Aug, 2 on 15 Sep (AB AF DT).

C 4 Cambus 15 Aug, 2 on 18th, 7 on 28th (WB CJH SH). Area Summary (half monthly)

Apr	Aug	Sep
0 1	6 10	5 0

JACK SNIBE *Lymnocyptes minimus* (w)

F Kinneil: 6 on 19 Jan, 3 on 20th & 2 on 30th, 2 on 7 Feb; 5 on 13 Oct & 6 on 31st (MD JMs GO RS DT). 1 Skinflats 21 Nov (AB).

C 1 Kennetpans 3 Nov (CJH).

SNIPE *Gallinago gallinago* (B,W)

F Kinneil: 25 on 15 Sep, 60 on 17 Oct (DT). 7 Skinflats 19 Aug, 5 on 21 Nov (AB GO). 1 Jupiter WG Feb-Mar (WRB). 32 Parkfoot Marsh 3 Nov & 15 on 23rd, 16 on 7 Dec (AS).

C Kennetpans: 41 on 24 Oct, 25 on 3 Nov, 21 on 12 Dec & 5 on 26th (DMB CJH). 1 AoT Cambus 10 Apr (CJH); 24 on 14 Aug & 20 on 18th (WB SH). 5 Tullibody Inch 26 Sep (DMB).

SWP 1 AoT Bows 17 Apr (WRB).

WOODCOCK *Scolopax rusticola* (B,W)

F 1 over Grangemouth (heavy snow) 22 Dec (WRB). 1 Howierigg 19 Jul & 2 on 22 Nov (AS Ast).

C 1 Sheardale 21 Nov (DT). SWP 1 Thornhill 1 & 27 Feb (SS). 2 with Y Ardeonaig 15 May (PWS).

BLACK-TAILED GODWIT *Limosa limosa* (W)

F Kinneil: 30 in Jan, 37 through Feb and early Mar, 22 on 27 Mar, 14 on 1 April & 17 on 22nd, 20 on 25 Jul, 38 on 29 Aug, 21 on 3 Sep & 7 on 26th, max 34 through Sep & Oct, 24 on 5 Dec & 10 on 19th (AB DMB MVB JC JMs GO RS DT). Skinflats: 2 on 5 Jan, 1 on 12 Feb, 8 on 25 Mar & 30 on 28th; 134 on 23 Apr; max 19 in May; 1 on 8 & 26 Jun; 2 on 3 Jul & 5 on 29th, 15 on 7 Aug, 7 on 22 Aug & 30 Sep; (AB WRB DMB AF CJH DO GO RS). 4 Grangeburn 5 Oct (RS). A bird at Skinflats 5 & 9 May had red & orange rings on right and green & yellow rings on left leg (AB). GO's count of 134 at Skinflats in April is a record and coincides with unusual numbers at Cambus.

C Cambus: 36 on 21 Apr, 19 (12 in BP) on 15 May, 5 on 9 Aug (WB CJH).
Area Summary (half monthly) (Area = whole Region)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Knnl	29	30	37	17	36	22	14	17	0	0	0	0
Sknf	2	0	1	0	0	30	34	134	19	16	1	1
Area	31	30	38	17	36	52	48	187	19	35	1	1

BAR-TAILED GODWIT *Limosa lapponica* (W)

402 Forth estuary 24 Jan (DMB).

F Kinneil: 120 on 3 Jan, 70 on 28 Nov, 170 on 5 Dec, 230 on 12th, 100 on 19th (AB DMB DT). Skinflats: 4 on 7 Feb, on Pools -1 on 9 & 12 May & 3 on 21st, 1 on 25 Jul & 6 on 6 Aug (AB MVB GO).

WHIMBREL *Numenius phaeopus* (p)

F Skinflats: 5 on 7 May (left W), 4 on 8th (left N), 1 on 15th & 30th, 1 on 4 Jun; 1 on 14-19 Jul & 5 on 24th, 5 on 1 Aug & 2 on 5th, last on 19th (AB GO RS). Kinneil: 3 on 25 Jul & 1 on 28th, 1 on 10 Aug, 1 on 19th & 2 on 21st. 1 on 10 Sept (AB DMB RS DT).

C 2 Tullibody Inch 23 Jul & 3 on 21 Aug (DMB CJH). 1 Cambus 17 Aug (SH).

S 1 Bandeath 8 May (DMB).

SWP 2 Thornhill 25 Jul (SS).

Area Summary (half monthly)

May	Jun	Jul	Aug	Sep
61	10	112	56	10

CURLEW *Numenius arquata* (B,W)

1807 Forth estuary 24 Jan (DMB).

F Kinneil: 300 on 25 Jul, 600 on 29 Aug, 630 on 12 Sep & 250 on 15th (DMB DT). 470 Grangemouth 21 Aug (MVB). Skinflats: 375 on 24 Jan, 512 on 7 Feb, 194 on 18 Sep, 187 on 31 Oct, 300 on 19 Dec (MVB AMcl). 50 by M9 Kinnaird early Dec, 10 flying inland there 11 Jul. 20 Dunmore 15 Feb, 40 on 14 Mar & 109 on 28 Nov (WRB CJH AMcl PWS). 2 AoT Maddiston 26 Apr (AMcl).

C 153 Kennetpans 24 Oct & 190 on 26 Dec. 40 Cambus 21 Mar; 60 Tullibody Inch 1 Apr & 30 on 23 Jul (DMB CJH).

S 130 Stirling ring-road early March & 50 at end Oct (BRT).

SWP 2 Cambusmore 12 Feb, 10 on 10 Mar & 50 on 15th (PWS). Braes of Doune: 4 AoT Bows, 2 AoT Cromlix (WRB).

*SPOTTED REDSHANK *Tringa erythropus* (p)

F 1 Skinflats 1,2,4,12 & 18th Aug, 2 on 16th & 23rd, 3 on 19th & 22nd; 1 on 13 Sep & 2 on 15th; 1 on 2 Oct & 2 Dec (AB DO GO RS AF). 1 Kinneil 31 Oct (MD).

C 1 Kennetpans 24 Oct (DMB).

REDSHANK *Tringa totanus* (B,W)

1708 Forth estuary 18 Sep (DMB).

F Skinflats: 940 on 21 Jan, 920 on 7 Feb, 350 on 4 Apr; 1005 on 18 Sep, 1140 on 31 Oct, 1100 on 28 Nov, 760 on 12 Dec (AB MVB). 150 Higgins

Neuk 25 Apr (WRB). 560 Kinneil 12 Apr, 1010 on 29 Aug; 500 Grangemouth 2 Nov & 2160 on 29th (DMB CJH AMcl). 70 Blackness 12 Apr . 100 Airth 15 Feb & 14 displaying there on 2 Apr (CJH PWS).

C 2 Cambus 17 Apr - 3 May, 1 on 22 May (SH).

SWP 2 AoT Bows; 40 Kinbuck 30 Mar, 1 AoT Ashfield (WRB BH).

GREENSHANK *Tringa nebularia* (p)

F Skinflats: 1 on 28 Apr, 8 & 9 May; 1st of autumn 1 Jul, regularly from 15 Jul to 26 Sep, max 5 on 5 & 7 Aug & 3 on 10th & 18th, last 1 on 13 Oct (AB DMB HB GO RS). Kinneil: from 25 Jul to 10 Sep, max 3 on 7 Aug & 4 on 8th, last on 13 Oct (DMB JMs GO RS DT). 1 Higgins Neuk 29 Oct (DF).

C 2 Cambus 10 Apr flew off N (CJH). At Cambus 22 Jul to 21 Sep, max 3 on 13 Aug (1 with squeaky call) & 2 on 15th who had a prolonged and vigorous aggressive encounter (WB WRB CJH SH). 1 Alloa Inch 26 Sep (DMB). Area Summary (half monthly)

Apr	-	Jul	Aug	Sep	Oct
		2	0 13	12 4	4 2
				2 1	

*GREEN SANDPIPER *Tringa ochropus* (p)

F Kinneil: 1 on 2, 3 & 8 Aug, 3 Sep (GO RS DT). Skinflats: 1 on 1, 5, 7, 10 & 22 Aug, 2 on 4th & 6th (AB DMB AF GO RS).

C 1 Cambus 22 & 25 Jul, 2 & 21 Aug, 4 Sep (WB DMB CJH SH). Area Summary (half monthly)

Jul	Aug	Sep
0 1	5 2	2 0

*WOOD SANDPIPER *Tringa glareola* (p)

F 1 Skinflats 1 Aug (RS).

COMMON SANDPIPER *Tringa hypoleucos* (B)

F 1 Kinneil 8 May, 1 on 25 Jul, 3 on 1 Sep (DMB GO DT). Skinflats: 1st of autumn 2 on 14 Jul to 7 Aug, max 3 on 1 Aug (AB GO).

C 1st Cambus 17 Apr, Gartmorn Dam 20 Apr (MC SH). 2 Tullibody Inch 23 Jul (CJH).

S 1 Lower Earlsburn Res 11 Apr (DT).

SWP 1st L.Ard 17 Apr (MT). Pair Ashfield, 1 Barbush 18 Aug (WRB).

Area autumn totals, estuary :	Jul	Aug	Sep
	25	30	30

TURNSTONE *Arenaria interpres* (W)

68 Forth estuary 12 Dec (DMB).

F 1 Carronmouth 5 Jan. 1 Kinneil 25 Jul & 2 on 26 Nov (GO DT).

*POMARINE SKUA *Stercorarius pomarinus* (p)

F 1 imm Skinflats 2 & 31 Oct (GO).

*ARCTIC SKUA *Stercorarius parasiticus* (p)

F 1 ->E Skinflats 9 Sep, 2 on 20th, last 1 on 17 Oct. 1 Kinneil 8 Aug & 12 Sep (AB DMB GO DT).

*LITTLE GULL *Lams minutus* (p)

- F 1 1st summer Skinflats 22 May to 8 June (AB DMB GO RS). 1 adult Skinflats 15 August (AB).

BLACK-HEADED GULL *Lams ridibundus* (B,W)

- F Skinflats: 521st summer on 28 May, 1st juv on 30 Jun (CJH GO); 200 on 20 Sep (AB). Several oiled birds at Kinneil 28 Nov (DT).
 C 2000 on flooded pasture Cambus 30 Jan; 2500 Gartmorn 23 Oct (CJH).
 SWP 900 on flooded pasture Blairdrummond 31 Mar (CJH), 1000 Argaty 10 Mar, 500 on 20 Apr & 300 18 May (200 pairs on May) but few on 23rd (PWS). 200 pairs Ashfield probably reared 120Y (WRB). 300 (63 nests) Barbush 3 May but all failed and birds left by 15 May (MVB).

COMMON GULL *Lams canus* (B,W)

- F Several hundred winter around Grangemouth suburbs (WRB).
 C 130 Cambus 10 May were all immature (CJH).
 S Birds feeding in Stirling garden Aug & Dec (RJ).
 SWP Argaty: 100 on 10 Mar, 100 pairs on 10 May and still 60 on 23rd (PWS). 36 (9 nests) Barbush 3 May, survived better than BHG (MVB). 2 nests Monachlye Glen 8 Jun & 3 pairs Kirkton 4 May (DJP). 15 L.Oss 9 May (SS).

LESSER BLACK-BACKED GULL *Larus fuscus* (b,S)

- F 1 wintered Grangemouth Jan & Dec (WRB). 1st of spring: 4 Kinneil 7 & 13 Feb (GO DT). 20 pairs Zeneca site, at least 2 broods of 3Y WRB).
 C 20 on warehouse roofs Cambus 18 Aug, possibly nested (CJH).
 S Last of autumn 8 L.Coulter 13 Nov (WRB).
 SWP 2 Dunblane 7 Mar (BH). 2 pairs Argaty 20 Apr, only 1 on 24 Jun (PWS).

HERRING GULL *Lams argentatus* (b?,S,W)

- F 3000 (90% immature) Kinneil tip 8 May (HEMD).
 C 1100 Cambus 26 May & 1900 Tullibody Inch 23 Jul were mainly immatures (CJH).
 S 2400 Fallin tip 14 Apr & 1800 on 27 Nov (CJH).

*ICELAND GULL *Lams glaucooides*

- C 11st winter Cambus 29 Mar (CJH).

KITTIWAKE *Rissa tridactyla* (P,w)

- F 103 -> E Skinflats 9 Sep (GO). 3 Blackness 17 Oct (CJH).
 S 1 imm, newly killed by predator, Carron Bridge 12 Feb (AFw).

SANDWICH TERN *Sterna sandvicensis* (P)

- F 2 Skinflats 7 May & up to 4 until 3 Jul (AB GO). 80 Kinneil 29 Aug (DMB) & 440 Blackness 29 Aug (CJH). 30 Bo'ness 1 Sep (AMcl). 100 Skinflats 12 Sep & 25 on 18th (DMB MVB).
 C 8 Cambus 9 Aug, 3 on 15th, 40 on 28th (WB CJH SH).

COMMON TERN *Sterna hirundo* (B)

- F 2 Skinflats 7 May & 35 R.Carron on 8th (GO), 12 Kinneil 9 May (CJH). At four nesting sites Grangemouth there were 56 birds on 16 May with 56 nests on 23rd rising to 113 on 19 June, 139 nests overall with

at least 60 and possibly 100 Y reared; most adults left between 25 July (when many flying Y) & 7 Aug though 11 broods and 1 sitting bird still there on last date (DMB). Last, 2 Kincardine Br 18 Sep (MVB).

C 1 -> W Cambus 14 Jun (CJH).

*GUILLEMOT *Una aalge* (W)

F 6 Blackness 6 Mar (CJH).

*RAZORBILL *Alca tarda* (w)

F 4 Blackness 6 Mar (CJH).

ROCK DOVE / FERAL PIGEON *Columba livid* (B,W)

S 350 on tilled ground Cambuskenneth 28 Oct (CJH).

SWP 50 Dunblane through year (BH).

STOCK DOVE *Columba oenas* (B,W)

F 2 Skinflats 6 Apr & 25 May, 3 on 8th (HEMD GO RS).

C 2 Myreton 8 May, 20 S.Alloa bridge 23 Jul (CJH).

S 6 Cambuskenneth 28 Oct (CJH).

SWP 4 ThornhiU 20 Dec (CJH).

WOODPIGEON *Columba palumba* (B,W)

F 1000 Larbert 26 Feb (AMcI). 330 roosting in birch scrub Kinneil 26 Nov (GO). 150 in stubble Camelton 28 Nov (AS).

C 330 Menstrie 25 Dec (BRT). Scarce Tillicoullry-Dollar Nov-Dec, 10 per 10 km transect (CJH).

COLLARED DOVE *Streptopelia decaocto* (B,W)

F stragglers Kinneil 23 Apr (flying W) & Skinflats 11 Nov (GO).

C 21 Menstrie 11 Dec, much as 1991 & 1992 (BRT).

SWP 2 Dunblane Jan-Apr & Dec (BH).

CUCKOO *Cuculus canorus* (B)

S 1 Cocksburn Res 2 May (CJH).

SWP 1st Menteith Hills 23 Apr & Leny on 30th (WRB DT). 1 Monachyle Glen 5 May, at 400m Glen Crotha on 11th (DJP).

*BARN OWL *Tyto alba* (b,w)

F 1 hunting by road Stenhousemuir, night of 21 Nov (AB).

SWP 1 Dunblane 30 Jan (SS).

TAWNY OWL *Strix aluco* (B,W)

F 1 Skinflats 20 Sep (GO RS).

C Heard Menstrie 5&6 Feb (BRT).

SWP Fewer in nest boxes at Trossachs & clutches small (HR).

LONG-EARED OWL *Asia olus* (b,w)

F 1 Skinflats 20 Sep (AB GO RS).

C Pair bred Cambus, seen 25 Apr to August, 4 Fledged juvs 3 May with adult carrying voles to them (WB WRB CJH SH).

SWP 1 Deanston 6 Aug (SS).

SHORT-EARED OWL *Asioflammeus (b,W)*

- F Skinflats: 1 on 18 Jan, 2 on 7 Feb & 3 on 17th, 1 until 1 Apr; 1 on 5 Jun & 17 Jul; 1 on 29 Aug, 26 Sep & 11 Nov (AB DMB GO RS). Kinneil: 1 on 3rd, 2 on 4th & 1 on 19 Jan, 3 on 7 Feb & 5 on 15th, 4 on 7 Mar; 1 on 15 Sep & 31 Dec (AB GO RS DT). 1 Limerigg 20 Oct (AMcl).
- C 1 Cambus 9 & 30 Jan, 14 Apr. 1 Blackdevonmouth 21 Mar (CJH).
- S 2 seen in Carron Valley in summer (AFw).
- SWP 1 Thornhill 26 Jan (SS). 1 Lecroft 9 Feb (CJH).

NIGHTJAR *Caprimulgus europaeus*

- SWP 1 singing in south section of Queen Elizabeth Forest Park in June (per Forest Enterprise).

SWIFT *Apus apus (B)*

- F 1 over M9 Falkirk 9 May (CJH). 1 Skinflats 28 Apr (RS), 100 on 22 Jul (GO). 25 Jupiter WG in cold weather in Jun (WRB). 2 Larbert 23 Aug (DT).
- S 1st BoA 26 Apr, main arrival 11 May; 50 on 2 Aug, 70 on 5th, 30 on 13th, last 10 on 16th (DMB CJH). 3 Stirling 11 May (RJ), few after 17 Aug, last 1 on 21 Aug (DT). 1 Airthrey 25 Aug (MVB). SWP 2 Ashfield 12 May, 5 AoT (WRB). 12 Blairdrummond 16 May (PWS). 3 Dunblane 19 May, 20 on 20-30 Jul, last 3 on 15 Aug (BH).

*KINGFISHER/1/cedo *atthis (b,w)*

- F 1 Carronshore 30 Oct (AB). 2 on R.Avon at Grangemouth early Dec (per WRB).
- C 1 pair reared broods of 5 & 4 (MC). 1 Cambus 14 Aug (SH).
- SWP 1 Ashfield 13 Nov (WRB).

GREEN WOODPECKER *Pycus viridis (B,W)*

- F 4 (prob juv) Roughcastle 18 Aug (AS).
- C Heard Menstrie from Apr, also 1 on 25 & 28 Dec (BRT). 1 Harvieston 2 Feb (CJH).
- S 2 Plean CP 28 Mar (DT).
- SWP At 2 sites L.Ard Forest Jun-Jul (CJH), calling on 22 Aug (RAB). At Balquhidder in Apr & Oct (DJP). 1 Callander 2 Apr (PWS). 1 Menteith Hills 6 Apr, Lake of Menteith on 18 Apr & 3 Aug (RAB DT).

GREAT SPOTTED WOODPECKER *Dendrocopos major (B,W)*

- F AoTs at Dunmore 21 Apr & Maddiston on 28th (AMcl). Probably 2 AoT Howierig mid-Jul (AS). 1 Jupiter WG 2 Nov (WRB).
- C 1 Harviestoun 10 Nov (CJH).
- S 1 Blairlogie 3 Apr (CJH). 2 Mine Wood 22 May & 1 on 26 Dec (DMB).
- SWP 1 Dunblane 8 Feb (BH). 1 Ardeonaig 2 Apr (PWS). 1 L.Ard Forest 18 & 23 May (CJH). 2 with brood Doune 6 June (DMB). (*This must be a highly underrecorded species, Ed*)

SKYLARK *Alauda arvensis (B,W)*

- F 70 Skinflats 2 Nov & 50 on 7th (AB AMcl). 180 Kinneil 31 Dec (MVB).
- C 60 Gogar 29 Oct & 27 Nov (CJH), 80 -> W 28 Dec & 200 there

- (Stubble) on 30th (BRT).
- S Song Kippenmuir 6 Feb (DT). 15 Cambuskenneth 10 Feb, 20 in tight & wary flock Kippenrait 11 Apr (CJH).
- SWP Song Thornhill 5 Feb (SS). 4 ->NW Blairdrummond 7 Feb; 102 Gargunnoch 11 Nov, 35 Drip Moss on 22nd, 100+85+73 Thornhill 20 Dec (CJH). 4-5 AoT Ashfield Feb-Jun, 5 AoT Bows-Cromlix 17 Apr (WRB). Little change on Blairdrummond spring transect (CJH).
- SAND MARTIN *Riparia riparia* (B)
- F 1 Carronshore 21 Mar (AB).
- C 1st Gartmorn Dam 23 Mar (MC).
- S 7 Airthrey 7 Apr & 20 on 8th (DMB).
- SWP 3 Lake of Menteith 14 Mar & 30 on 31st (DT). 10 Blairdrummond 23 Mar (PWS). 1st Dunblane 1 Apr & 5 on 3rd, some nest holes appeared on earthslip but abandoned after fenced along top (BH). 200 Barbush 24 Apr (WRB).
- SWALLOW *Hirundo rustica* (B)
- F 1 Skinflats 6 Apr (GO). Some ->W Kinneil 6 Sept (DT).
- C 1st Gartmorn 3 Apr (MC), Menstrie 21 Apr (BRT). 20 hawking Cambus Pool in bad weather on 15 May (CJH). 500 at roost Tullibody Inch 4 Sept, harried by Sparrowhawk (DMB).
- S Craigforth 11 Apr (DMB), 3 Airthrey on 16th (MVB). Dunblane 11 Apr & 20 juv on 1 & 2 Oct (BH). 1 Lake of Menteith 11 Apr, 2 Ashfield on 18th (WRB). 1 Thornhill 21 Apr, Menteith Hills on 23rd (AMcl DT). 5 Aberfoyle 22 Sept (DT).
- SWP 1st Kinlochard & Aberfoyle 2 Apr (R.Duel LTB). Last Balquhiddy 17 Sep (DJP).
- HOUSE MARTIN *Delichon urbica* (B)
- F 1 Slamannan 11 Nov (TDS) - *exceptionally late date*, Ed.
- C 1st Menstrie 2 May, nestbuilding from 11th, 20 birds on 18th; 65 on 10 Sep, last 2 on 23rd (BRT).
- S 1 Airthrey 8 Apr (DMB), Stirling 24 Apr (RJ). Last BoA 4 on 12 Oct (CJH).
- SWP 1st Thornhill 21 Apr (AMcl), Menteith Hills 23 Apr (DT). 1st Ashfield 25 Apr, 8 pairs, last 3 on 8 Oct (WRB). 1st Dunblane 27 May (8 on 29th), 2 on 2 Oct (BH).
- TREE PIPIT *Anthus trivialis* (B)
- C 4 AoT Wood Hill, 3 AoT Dollar Glen (MC).
- SWP 2 sg Thornhill 10 Apr (SS), Menteith Hills on 23rd (DT), Kilmahog on 30th (WRB). In breeding season at Aberfoyle, L.Ard Forest (HEMD CJH). Heard Ashfield 12 Aug & ->S Dunblane on 29th (WRB MVB).
- MEADOW PIPIT *Anthus pratensis* (B,W)
- F A few wintered Jupiter WG Feb-Apr and from Sep (WRB).
- C 5 by floodwater Dollar 24 Dec (CJH).

- S 25 Arnprior 24 Oct (DT).
 SWP Some Balquhadder 6 Apr & abundant by 13th (DJP). 38 Thornhill 20 Dec (CJH).
- *ROCK PIPIT *Anthus petrosus (w)*
 F 1 Blackness 17 Oct (CJH).
 C 1 Forthbank, Cambus, 26 Dec (BRT).
- YELLOW WAGTAIL *Motacilla flava*
 F 1 Skinflats 18 Apr (WRB).
- GREY WAGTAIL *Motacilla cinerea (B,w)*
 F 1 Falkirk (Westquarter) 18 Apr (AMcI). Through year at Jupiter WG, pair Apr-May but did not breed (WRB). 1 Kinneil 26 Nov (GO).
 C Menstrie in Apr (BRT). 1 by R.Devon at Dollar 10 Nov & 24 Dec (CJH).
 S 1 in Stirling centre 26 Jan & 22 Oct (DT). 2 AoT R.Allan (Kippenrait) 8 Mar, 14 Apr (CJH PWS). Ad with newly fledged Juv BoA 20 May (DMB) (1.5 km from known AoT, Ed).
 SWP 2 AoT Dunblane in Apr, juv on 27 May (BH). Only a fair breeding success (HR).
- PIED WAGTAIL *Motacilla alba (B,W)*
 F Birds of the *alba* subspecies seen at Skinflats: 1 on 25 Mar, 5 on 16 Apr, 4 on 20th, 2 on 22nd & 23rd (AB GO); also 1 gathering insects at Powbridge on 18 Jun (AB) (? suggests breeding, Ed).
 C Juvs seen Menstrie 28 May (BRT). A few Dollar Nov-Dec (CJH). SWP 2 through year Dunblane (BH). Breeding numbers seemed low (HR). No change on Blairdrummond spring transect; only 1 in 10 Km Thornhill 20 Dec (CJH).
- DIPPER *Cine/us cindus (B,W)*
 F 1 Falkirk 18 Apr (AMcI). 1 Bonnywater Oct-Dec (AS).
 C Menstrie Burn Apr & Dec (BRT).
 S 2 AoT R.Allan (Kippenrait) 14 Apr (CJH). 2 on Pow Burn S of Kippen 19 Dec (R).
 SWP 3 through year Dunblane, displaying 21 Feb (BH). Only fair breeding succes (HR).
- WREN *Troglodytes troglodytes (B,W)*
 C Fledged Y seen Menstrie 28 May (BRT). SWP No change on Blairdrummond spring transect (CJH).
- HEDGE SPARROW *Accentor modularis (B,W)*
 SWP Only 1/4 as frequent as Robin on Blairdrummond spring transect but no change (CJH).
- ROBIN *Erithacus rubecula (B,W)*
 S Autumn song Airthrey 13 Aug (CJH).
 SWP 4 together in Dunblane garden Feb (BH). 17 records per 8km spring transect Blairdrummond, increase of 50% from 1992 (CJH).

REDSTART *Phoenicurus phoenicurus* (B)

- S Imm in Stirling garden 19 & 21 Aug (RJ).
- C Pair bred Wood Hill (MC).
- SWP 1 Ashfield 12 Apr, 2 M Kilmahog on 30th (WRB). Pair at nestbox Ardeonaig 29 Apr (PWS). 40 nests at Trossachs colony reared 215 Y (HR).

WHINCHAT *Saxicola torquata* (B)

- F M Skinflats 6 May, F+4Y on 23 Jul (GO), 1 on 22 Aug (AB). Pair feeding Y Howierigg 19 Jul (AST). 1 Grangemouth 29 Aug (DMB). 2 Kinneil 3 Sep (DT).
- S 1st Cocksburn Res 2 May - M with song ending with Chaffinch flourish (CJH). SWP 1st Callander 30 Apr (WRB). 2 AoT L.Ard Forest in 120 Ha replanted conifer (CJH). 1 Argaty 18 May, 2 Stronachlachar on 28th (PWS). None seen in breeding season (DT).

*STONECHAT *Saxicola torquata* (b,w)

- F 2F Kinneil 28 Nov (DT). 2 L.Ellrig 28 Sep (RS).
- C F Blackdevonmouth 21 Mar; F Dollar 24 Dec (CJH).
- S F Cambuskenneth 25 Jan (CJH). Pair Carron Valley 11 Sep (DO).
- SWP M Flanders Moss 13 Mar (SS). 1 L.Doine 14 Apr (DJP). 1 Stronachlachar 28 May (PWS).

WHEATEAR *Oenanthe oenanthe* (B)

- F 3 Skinflats 18 Apr & 1 on 20th (AB GO). 2 Kinneil 1 & 12 Apr, 1 on 14th, 5 on 6 May (CJH GO RS DT). 2 Skinflats 22 Aug (AB), 2 Kinneil 3 Sep (GO). 1 Jupiter WG (Greenland race) 14 Aug (WRB). Last Fannyside 5 Oct (AMcl).
- S M Cringate & Cairnoch Lodge 11 Apr, 1 Thornhill on 13th (SS DT). F Cambus 8 May (SH).
- SWP 1 L.Doine 14 Apr (DJP). 3 Cromlix 17 Apr (WRB). Last 1 L.Arklet 4 Sep (AMcl).

*RING OUSEL *Turdus torquatus* (b)

- SWP F Balquhiddier 11 Apr (AMcl).

BLACKBIRD *Turdus merula* (B,W)

- S 3 taking Cotoneaster berries BoA 6-11 Jan (CJH).
- SWP 10 juv together Dunblane 18 Aug, 15 on 13 Dec (BH). Decrease of 27% on Blairdrummond spring transect (CJH).

FIELDFARE *Turdus pilaris* (W)

- F 150 L.Ellrig 8 Jan (CJH). Many Skinflats 10th Oct (AB). 150 Fannyside 20 Oct & Garbethill on 14 Nov, 60 Airth 2 Nov (AMcl). 45 Bonnybridge 8 Nov (AS).
- C 250 Kennetpans 9 Jan & 450 on 24th, 75 Forestmill 14 Feb. 20 Gartmorn on 20 Oct (CJH DT). 40 Gogar 30 Dec (BRT).
- S 150 Cambuskenneth 25 Jan, 60 Arnprior 6 Feb & 100 Cringate 11 Apr. 5 BoA 11 Oct, 300 Gargunnock, 200 Kippenmuir & 700 Arnprior 24

- Oct, 232 Gargunock 11 Nov (MVB CJH DT).
 SWP 100 Braes of Doune 2 Feb, 60 Lecropt 4 Mar (CJH). 30 Ashfield 15 Mar & 200 ->SW on 14 Nov (WRB). 150 Thornhill 12 Apr (SS). 5 ->SW Dunblane 9 Oct (MVB). 500 Blairdrummond Moss & 150 Torrie on 24 Oct (DT).
- SONG THRUSH *Turdus philomenos* (B,W)
 F Many Skinflats 10 Oct (AB).
 C 2 Cambus 27 Nov were presumably responsible for the hundreds of smashed shells of *Cepaea nemoralis* (CJH).
 SWP No change on Blairdrummond spring transect, now as frequent as Blackbird (CJH). A few Dunblane through year but 5 on 3 Mar (BH). 2 AoT Ashfield (WRB).
- REDWING *Turdus iliacus* (W)
 F 50 S.Alloa 8 Jan (PWS). 6 Skinflats 6 Oct & many on 10th (AB GO). 6 Garbethill 6 Oct, 200 on 20th & 40 on 14 Nov (AMcl).
 C 15 Wood Hill 27 Dec foraged in leaf litter with Blackbirds; 40 Gogar on 30th with Fieldfares and Starlings; 4 Menstrie stripped a Holly of berries 26-29 Dec (BRT).
 S Up to 20 BoA stripped a Cotoneaster of berries 6-14 Jan (this bush previously misidentified as *Stranvesia*). 62 Cocksburn Res 10 Oct (CJH), 350 Arnprior on 24th (DT). 50 inside Mine Wood 26 Dec foraged in leaf litter (snow on fields) (DMB).
 SWP 300 Braes of Doune 25 Jan (PWS). 1st autumn Ashfield 2 on 4 Oct (WRB). 18 Dunblane 7 Oct (BH). 500 Blairdrummond Moss 24 Oct (DT).
- MISTLE THRUSH *Turdus viscivorus* (B,W)
 S 12 Cambusbarron 1 Aug (RJ).
- *GRASSHOPPER WARBLER *Locustdla naevia* (B)
 F Song Skinflats & Carronshore 25 Apr (AB), 3 Skinflats 5 May and one until 18 Jul (GO RS).
 C Song Cambus 24 Apr & 27 Jul (WB). SWP Song Blairdrummond carse 29 Apr to 20 May (CJH).
- SEDGE WARBLER *Acrocephalus schoenobaenus* (B)
 F 2 Falkirk 24 Apr (AMcl). 2 Skinflats 1 May (RS), 4 on 4 Sep (DT).
 C 1st Cambus 27 Apr (WB), 1 AoT through May, last 14 Aug (CJH SH AMcl). 1st Gartmorn Dam 22 Apr, 4 AoT (MC). SWP 1st Thornhill 4 May (SS). 1AoT Ashfield (WRB). Only 1 on Blairdrummond transect in May (CJH).
- *LESSER WHITETHROAT *Sylvia curruca*
 F 1 singing by Polmont Res 6 May (WRB).
- WHITETHROAT *Sylvia communis* (B)
 F 1st (2) Camelon 24 Apr (AMcl); 2 Skinflats 26 Apr & 5 on 7 May, last there on 12 Sep; 1 Carronshore 28 Apr (AB GO RS). 1 AoT Jupiter WG

- (WRB). 3 Kinneil 13 Jun (DT). Pair feeding Y Howierig 19 Jul (ASt).
 C 3 pairs bred Gartmorn & 4 pairs along Devon Way (MC). 2 AoT Cambus 15 May (CJH).
 SWP 2 Dunblane 12 May, 1 AoT Argaty (PWS). 1 AoT Blairdrummond transect (none in 1992) (CJH).
- GARDEN WARBLER *Sylvia borin* (B)
 SWP 1st Aberfoyle 4 May (HEMD), Ashfield (2 AoT) 9 May (WRB). 1 AoT Blairdrummond transect (CJH).
- BLACKCAP *Sylvia atricapilla* (B)
 F 1 Polmont Res 6 May (WRB). M Skinflats 7 May & 13 Jun, last 12 Sep (AB GO).
 C Pair Cambus 30 Apr (WRB). M Menstrie 3 May (BRT). 1st Gartmorn Dam 16 Apr, 6 pairs bred (MC). F wintered Dollar 30 Dec to Mar 94 (SH).
 S M&F wintered 92-93 in Stirling garden (JB). M in Stirling garden 27 Oct, F on 15 & 31 Dec (at Snowberry, RJ).
- WOOD WARBLER *Phylloscopus sibilatrix* (B)
 F Pair + 3 Y Howierig 19 Jul (ASt). *Few breeding records for district* (Ed).
 S 1st (2) Aberfoyle 4 May (HEMD).
 C 4 AoT Dollar 29 May, single pairs Woodhill & Gartmorn (Cow park) (WB MC).
 SWP 1st Kilmahog 30 Apr (WRB). Sg L.Ard Forest 19 May (CJH). 4 M L.Achray (Ben Aan path) 14 Jun (HEMD). Record number of nests found at Trossachs site and high breeding success (HR).
- CHIFFCHAFF *Phylloscopus collybita* (B)
 F 4 sg Howierig 19 Jul (ASt). IFalkirk 28 May (AMcI).
 C 1st Gartmorn 2 Apr (MC), 6 Apr (WB). 1 AoT Menstrie from 7 May BRT).
 S Song Airthrey 2 Apr (MVB) & Blairlogie on 3rd (CJH), BoA on 11th (PWS). 1 Cambuskenneth 18 Apr (KA). 2 Plean CP 10 Apr (DT).
 SWP Wintering bird at L.Chon in mid Feb (R.Duel). 1st Lake of Menteith 31 Mar (DT). Singing Dunblane in June (WRB MVB).
- WILLOW WARBLER *Phylloscopus trochilus* (B)
 F 1 Kinneil 14 Apr, widespread by 18th (DT). 1st Skinflats 16 Apr, last on 12 Sep (AB GO). 1st Falkirk 20 Apr, many on 26th (AMcI). 3 AoT Jupiter WG (WRB). 19 broods Howierid 19 Jul (ASt).
 C 3 sg Cambus 25 Apr (SH).
 S 1st imm of autumn in Stirling garden 7 Aug (RJ). 1st Ashfield 10 Apr (WRB).
 SWP Lake of Menteith 21st (AMcI), Dunblane 25th (BH), Monachyle Glen 28th (DJP). In spruce ptn at 300m Braes of Doune (WRB). 6 AoT Blairdrummond transect 29 Apr & 3 May, only 1 on 19th & 20th after severe weather (CJH). Last Dunblane 19 Sep (MVB)

GOLDCREST *Regulus regulus* (B,W)

- F Through year at Skinflats & bred in pine copse (AB). 2 wintered Jupiter WG from 2 Nov (WRB).
 C 1 in scrub below Menstrie Crag 1 Jan & 1 in garden in severe weather on 12th (BRT). SWP 2 AoT on Blairdrummond transect, no change (CJH).

SPOTTED FLYCATCHER *Muscicapa striata* (B)

- F 2 AoT Howierig 19 Jul (ASt). 1 Skinflats 16 & 25 Aug, 12 Sep (AB).
 SWP 2 Kinbuck 19 May (PWS). 1AoT Ashfield (WRB). 2 L.Ard Forest 12 Aug (CJH).

PIED FLYCATCHER *Ficedula hypoleuca* (b)

- SWP 2M Kilmahog 30 Apr & Aberfoyle 4 May (WRB HEMD). 58 nest attempts fledged 291 Y at Trossachs nestbox colony (HR).

LONG-TAILED TIT *Aegithalos caudatus* (B,W)

- F 11 BoOness 22 Feb (RS). 15 Jupiter WG 23 Nov (WRB). 10 Bonnybridge (Seabegs) 8 Dec (AS).
 C 6 Menstrie 3 Jan (BRT). 9 Gartmorn 23 Oct (CJH).
 S 8 BoA 13 Jan & 6 on 8 Mar (PWS).
 SWP 12 Dunblane 24 Jan, 3 at feeder in Jan (BH). 10 Kirkton Glen 26 Oct (DJP).

COAL TIT *Parus ater* (B,W)

- Tit in mixed woodland Blairdrummond
 SWP Commoner than Blue through May (CJH).

BLUE TIT *Parus caeruleus* (B,W)

- C 12 with Great Tits in scrub Menstrie Crag 1 Jan (BRT). SWP 3 AoT Blairdrummond transect in May (CJH). More at Trossachs nestbox project & good breeding success (HR).

GREAT TIT *Parus major* (B,W)

- SWP 3 AoT Blairdrummond transect in May (CJH). Good breeding success at Trossachs nestbox project (HR).

TREECREEPER *Certhia familiaris* (B,W)

- S 2 climbing on stone wall at BoA for 2 min on 30 Apr, adult fed juv (CJH).

*GREAT GREY SHRIKE *Lanius excubitor*

- S 1 Carron Valley Forest (W) 6 & 7 Nov (JWy).

JAY *Garrulus glandarius* (B,W)

- F 2 or 3 family parties with at least 12 birds at Howierig 19 Jul (ASt), 1 there on 22 Nov (AS). 1 Bonnybridge (Seabegs) Oct-Dec (AS).
 C Single pairs in summer Gartmornhill, Birkhill, Wood Hill, Cowpark (MC). Seems to be increasing Clacks but only 1 Tillicoultry-Dollar 10 Nov in 17 km transect (CJH).
 S 1 Torwood 28 Nov (AB).

No significant reports from main area in SWP.

MAGPIE *Pica pica* (B,W)

C 5 Cambus 26 Dec (BRT).

S 13 *Cambuskenneth* 28 Oct (CJH).

SWP 10 Lecropt (*prob roost*) 9 Feb; 1 Blairdrummond 7 Feb but none seen on spring *transects* nearby. 1 Thornhill (9.5km transect) 20 Dec (CJH). 1 Ashfield *Mar-Apr*, disappeared (WRB). 2 Dunblane (Newton Cres) by summer - 1st seen here (MVB).

JACKDAW *Corvus monedula* (B,W)

C 200 *Tillicoultry* 6 Feb (CJH).

ROOK *Corvus frugikgus* (B,W)

Rookery counts: BoA(N), 69; BoA(S) 141; Witches Crag 48; Myretoun 81. Total 339. Young *out of nest* at Menstrie on 28 May (BRT).

CARRION CROW *Corvus corone* (B,W)

P 100 *Kinneil* 9 May (CJH), 1 'Hoodie' there on 23 Apr (GO).

SWP 21 *Sheriffmuir* 24 Apr (MVB).

S 1 *with Mole Airthrey* 19 Aug (MVB).

RAVEN *Corvus corax* (B,W)

SWP 13 ranges *checked*, 12 pairs; 6 successful pairs raised 18Y & 3 more an *unknown* number, one half grown Y killed by mammalian predator (PS-A). More low *ground* records than usual: 4 Lundie (Braes of Doune) 19 Jan (PWS); pair *Thornhill* 23 & 30 Jan, 1 on 3 Feb (SS); 1 Lake of Menteith 14 Mar (DT); 4 *Cromlix* 17 Apr (WRB); 2 L.Ard Forest 24 June (CJH); 2 over Dunblane 4 *Sep* (MVB). 2 *Airthrey* 28 Jan (DMB).

STARLING *Sturnus vulgaris* (B,W)

S 1st juv seen BoA 24 May (CJH).

SWP No large flocks on *Thornhill carse transects* Nov-Dec, max 105 on 20 Dec (CJH).

HOUSE SPARROW *Passer domestkus* (B,W)

C Records on transects in *Devon Valley* Nov-Dec west of Dollar restricted to the town and its outskirts, max flock only 6 on 22 Dec (CJH).

TREE SPARROW *Passer montanus* (B,W)

F 40 *Skinflats* 21 Nov & 4 Dec (AB).

C 4 Cambus 14 Jun, juv food begging (1st breeding in this locality, CJH). *Gartmorn* 10 Apr & 16 on 4 Oct (WB). 84 *Kennetpans* 7 Feb (MVB), on 24 Oct (DMB).

SWP Pair nested successfully in *Trossachs* (HR) (*unusual area & habitat*, Ed). 30 Lecropt 12 Dec (DT). Widespread on *Carse of Stirling*, max 40 Frew 13 November, 65 *Drip Moss* (Baad) 30 Jan (MVB) & 10 on 22 Nov (CJH).

CHAFFINCH *Fringilla coelebs* (B,W)

- F 200 Larbert 13 Mar (AMcl).
 C 80 Menstrie 11 Dec & 400 in stubble at Gogar on 30 Dec (BRT).
 S 500 Arnprior 6 Feb (DT).
 SWP Commonest breeding passerine in mixed wood transect Blairdrummond, 14 records per km, up 60% over 1992 (CJH). 1st song Thornhill 7 Feb (SS). 200 Ashfield 31 Oct (WRB).

BRAMBLING *Fringilla montifringilla* (W)

- F 1 Skinflats 7 Feb, 13 Kinneil 26 Nov (GO) & 6 on 31 Dec (MVB). 20 Carronshore 27 & 28 Dec (AB). 30 Garbethill 10 Nov, 110 Slamannan 10 Nov (DO) & 23 on 31 Dec (AMcl). 50 Threaprig 1 Dec (JS).
 C 70 on stubble with Chaffinches Menstrie 30 Dec (BRT).
 S 4 (3M) Arnprior 6 Feb, 7 on 24 Oct (DT). 1 Airthrey 23 Nov (DMB).
 SWP 10 Killin 17 Apr (PWS). 2 Ashfield 31 Oct to end Nov (WRB). 3 Thornhill 20 Nov (SS).

GREENFINCH *Carduelis Moris* (B,W)

- F 100 Kinneil 12 & 31 Dec (DMB MVB).
 C 150 Menstrie 25 Dec, also fed on nuts (BRT).
 SWP 40 Ashfield 31 Oct (WRB).

GOLDFINCH *Carduelis carduelis* (B,W)

- F 26 Jupiter WG 5 Mar (WRB). 20 Kincardine Bridge 31 Dec (MVB). Through year at Skinflats (AB).
 C 5 Devonmouth 1 Apr & 5 Dollar 24 Dec (CJH). Pair Menstrie Burn 28 May. 16 Alva 27 Dec (BRT).
 S 18 Airthrey 28 Jan (MVB). 12 Myothill 13 Oct & 9 Gargunnoch 11 Nov (CJH).
 SWP 18 Ashfield 4 Oct (WRB).

SISKIN *Carduelis spinus* (B,W)

- F 6 Skinflats 31 Mar & 1 to 28 Apr (GO). 1 family party Howierig 19 Jul (ASt) - Appears to be first breeding record for District, Ed.. 60 Bonnybridge (Seabegs) 1 Dec (AS).
 C 18 Gartmorn 7 Feb (WB). 2 on peanuts within half hour of 1st provision of winter at Menstrie 27 Dec (BRT).
 S 15 L.Laggan 24 Oct (DT). Song BoA 11 May & 17 Jul but no signs of breeding. 20 on seeding grass Carron Valley Res 28 Jul (CJH). Max 4 on peanuts Stirling from 5 Nov (RJ).
 SWP 70 Callander 21 Mar (JT). Many L.Venachar 18 Oct (CJH), 25 Brig o'Turk 28 Nov (WRB). 50 Fimbush Point (L.Tay) 20 November (C&AS).

LINNET *Carduelis cannabina* (B,W)

- F 400 Kinneil 31 Dec (MVB). 13 Airth shore 13 Apr (CJH), 12 Falkirk 24 Apr (AMcl).
 C 27 (in song) Longcarse 19 Feb, 120 in rape stubble Gogar 19 Oct (CJH). 150 Kennetpans 24 Oct & 300 on 28 Nov (DMB MVB).
 SWP 150 Frew 30 Jan (MVB). 30 Thornhill 20 Dec (CJH).

TWITE *Carduelis flavirostris* (b,W)

- F 15 Dunmore 24 Jan (DMB). 50 S.Alloa 30 Jan attacked by Sparrowhawk. 65 Airth shore 28 Nov feeding on Sea Aster (CJH). 15 Skinflats 7 Nov & 45 on 20 Dec (AB DF). 20 Kinneil 26 Nov (GO).
 SWP 2 pairs Callander (Glen Artney) 10 Jul (DMB). 2 Kinbuck 19 May (PWS) - late date for low ground, Ed.

REDPOLL *Carduelis flammea* (B,W)

- F 1 Jupiter WG 28 Jan (WRB). 2 Skinflats 28 Apr (GO). 1 Falkirk 24 Apr (AMcl). 1 or 2 AoT Howierig 19 Jul (ASt).
 SWP 1 Dunblane 27 May (BH), 1 L.Voil 11 Jul (DJP). 35 in birches Milour Moor & 40 Cromlix on 17 Apr; Pair bred Ashfield (WRB).
 (Seems local as breeding species but probably often overlooked, Ed)

BULLFINCH *Pyrrhula pyrrhula* (B,W)

- F 6 broods Howierig 19 Jul (ASt).
 S 5 Carron Valley Res 27 Dec (CJH).
 SWP 12 Ben An 23 Feb (WRB). 2 Monachyle Glen 14 Mar (DJP).

COMMON CROSSBILL *Loxia curvirostra* (b,W)

- S 50 Carron Valley Forest 3 Aug (JM), singing there on 28 Jul, a few on 11, 19 & 27 Dec (AB WRB CJH). 10 -> SW Airthrey 23 Nov (DMB).
 SWP 7 L.Ard Forest 19 Jun (CJH). 2 Menteith Hills 23 Apr, 1 L.Rusky 5 Oct & 7 on 5 Dec (DT), 2 Stronachlachar 17 Oct (MT).

*SNOW BUNTING *Plectrophenax nivalis* (W)

- S 1 Cambuskenneth 25 Jan (CJH). No doubt still frequent on the winter hills (Ed).

YELLOWHAMMER *Emberiza citrinella* (B,W)

- F 26 Skinflats 12 Feb (RS). 20 Dunmore 25 Feb (PWS), 58 Airth shore 2 Apr & 40 on 28 Nov (CJH). 2 AoT Maddiston 26 Apr (AMcl).
 C 30 Kennetpans 24 Jan (MVB).
 S 15 Cambuskenneth 25 Jan (CJH).
 SWP 1 AoT Ashfield, 15 on 31 Oct (WRB). 30 Blairdrummond Moss 9 Jan (DT). 50 Frew 20 Mar; 40 Lecropt 18 Dec (MVB).

REED BUNTING *Emberiza schoenklus* (B,W)

- F 2 broods Howierig 19 Jul (ASt).
 C 1 Cambus 21 Mar & 2 AoT 22 Jul, 4 birds on 14 Aug. 8 Kennetpans 26 Dec (CJH SH). SWP 4 Thornhill 20 Dec (CJH).

*CORN BUNTING *Miliaria calandra* (b,w)

- F 1 Letham (by M876) 22 Apr (WRB). M in song Skinflats on 30 Jun (GO).
 S M in song Powbridge 13 Jun (DT) (2 km from Letham record, Ed).

Additions to 1992 Report

HONEY BUZZARD Perm's *apivorus*

F On 7 July 1992 at Skinflats an adult soared in from the R.Forth and continued on to the SW. Full description supplied, the salient points included : size as common Buzzard but head small and protruding on a thin neck, wings seemed narrower and held flat. Underwing whitish with dark tips to primaries and secondaries giving a dark trailing edge, also double dark bar on underwing coverts. Chin whitish, breast dark and rest of underparts whitish with dark barring. Undertail whitish with two dark bars plus a terminal bar (R.Shand).

HEN HARRIER *Circus cyaneus*

SWP 2 Upper Kelty Water 9 Jul & 1 Menteith Hills on 19th (JT).

HOUSE MARTIN *Delichon urbica* S

SWP 30 nests at Arie waterhouse (Kelty Water) 9 Jul (JT).

STONECHAT *Saxicola torquata*

SWP 1 Bochastle (Callander) 4 Jul, 1 L.Doine on 5th, 1 Kelty Water on 7th (JT).

TWITE *Caduelis flavirostris*

SWP 4 Arie Dam (Kelty) 7 Jul (JT).

Correction to 1992 Report

BRENT GOOSE (*Branta bernicla*)

F 1 (light form) Skinflats 18 Oct (DMB). (*not 16, Ed mistake*)

BOOK NOTE

At the Watershed: a discussion paper on integrated catchment management for Scotland. Editor Alastair Stephen. Scottish Wildlife and Countryside Links (SWCL). 1994. 26pp. 0 9518582 2 X. £5.

SWCL's Freshwater Working Party in association with Farming & Wildlife Advisory Group; Fish Conservation Centre; RSPB; SCP; SWT; WWF and others recommends statutory bodies and non-government organisations (NGDs) join together in an initiative to tackle the urgent problems associated with managing fresh waters using the recognised framework of Integrated Catchment Management (ICM) - such as algal blooms (Loch Leven), Tay flooding and Loch Lomond problems, rivers and streams pollutions, mine waters....

L.C.

BOOK NOTES/REVIEWS (Naturalist)

**THE NORTHERN EMERALD:
AN ADDITION TO THE FORTH VALLEY DRAGONFLY FAUNA**

John T. Knowler and John Mitchell

On 23 July 1994, a dragonfly recording visit to a relict forest bog near Loch Ard, Aberfoyle, revealed the unexpected presence of the Northern Emerald (*Somatochlora arctica* Zett).

Despite the Northern Emerald being an exceptionally fast and high flyer, a male was eventually caught for examination to confirm the identity. A female was also present, being seen basking in the sunlight on one of the lower branches of a tall conifer at the edge of the bog. Mating or egg-laying was not observed, but the habitat with its well developed 'hump and hollow' sphagnum cover interspersed with small pools would appear particularly suitable for breeding.

Although the Northern Emerald was first collected in Scotland in 1844 from the Rannoch area of Perthshire (Selys-Longchamps 1846), these sightings from the upper Forth Valley represent the first instance of the species being found in the south of the county. The Loch Ard site is also the most southerly locality known in Britain (excluding Ireland) for this rare boreo-alpine dragonfly.

REFERENCE

SELYS-LONGCHAMPS, E de. 1846. Revision of the British Libellulidae. *The Annals and Magazine of Natural History* 18, 217-227.

HERMITAGE WOOD: a woodland conservation project. Les Hudson. *Staneybreeks!* journal of the Stirling Civic Trust, vol 1 (2) Spring 1994, pp!6-20. This short paper describes the first stages of implementing the David Shaftoe Hermitage Wood Management Plan of 1992, clearing and restoring the network of paths, and tackling the dense growth of *Rhododendron Ponticum* in the ancient woodland section. The first half of the paper is about the history of the wood. It is all a valuable addition to the section on this University woodland in FN&H's 1986 *Airthrey and Bridge of Allan* - a guide. Much work will continue under the management plan, now with supervision by the University's Environmental Science Department.

THE 19th MAN AND LANDSCAPE SYMPOSIUM - Alloa, Nov. 1993. Notes on the papers presented are recorded in the *Clackmannanshire Field Studies Society Newsletter* no. 52 April 1994, pp!4-22.