

Institute for Ornithology Polish Academy of Sciences

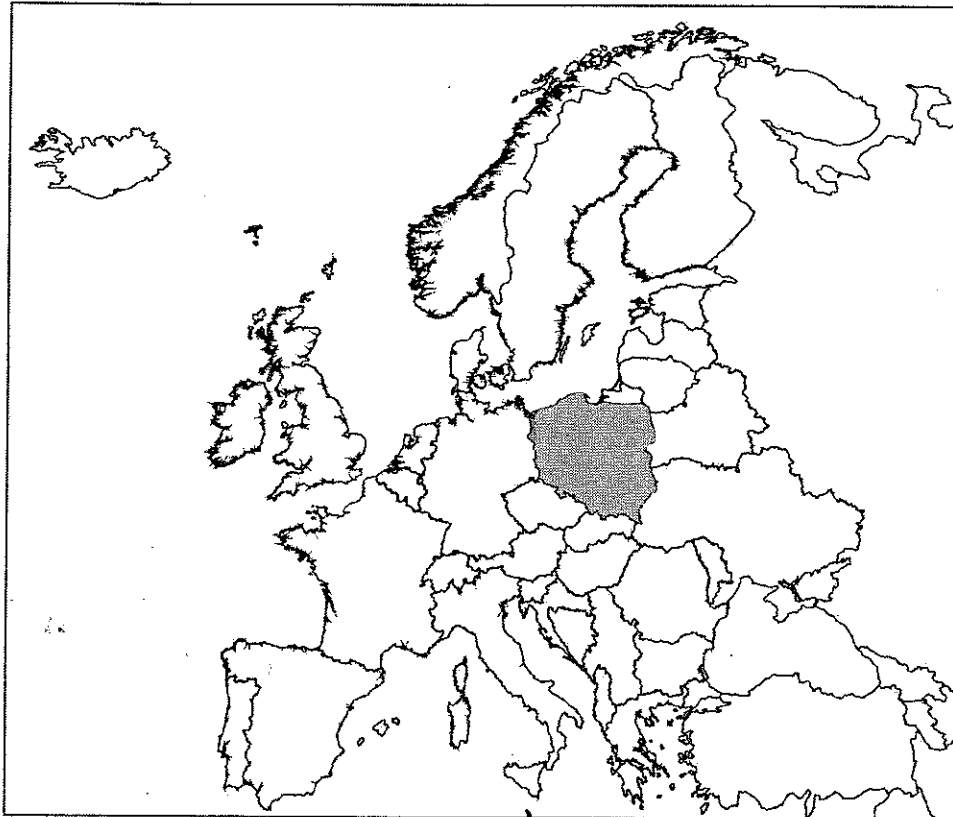
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EURING GENERAL ASSEMBLY – Chemnitz, Germany 2003

Report of the Gdańsk Ringing Scheme 2001–2002



Compiled by Tomasz Mokwa and Maciej Gromadzki, 16.08.2003.

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Gdansk Ringing Scheme 2003

To the end of the 2001 year Gdansk Ringing Scheme was run by the Ornithological Station, functioning as a department of the Institute of Ecology of the Polish Academy of Sciences (PAS). The Institute of Ecology was located near Warsaw.

Since the beginning of 2002 year the basic change in the status of the Station was done. By the decision of the President of PAS, the Station was removed from the Institute of Ecology and declared as independent Institute for Ornithology PAS, located in Gdansk, reporting only to PAS.

The Institute for Ornithology is led by a director, appointed as the result of a competition and acting over the period of 4 years. At the moment we are waiting for the conclusion of the first such competition which will take place in the beginning of October. The ringing scheme is a separated part of the Institute, as by a head appointed in the result of the decision of the director. At the moment Prof dr Maciej Gromadzki is appointed as Director – Head of the Scheme, and Tomasz Mokwa as the General Administrator of the Gdansk Ringing Scheme.

In years 1931-1939 the Polish ringing scheme reported to the director of the State Zoological Museum in Warsaw. In the years 1945-1990 it reported to the director of the Institute of Zoology PAS, and than, in years 1991-2001- to the director of the Institute of Ecology PAS. In that period, a kind of a control of ringing in Poland was in jurisdiction of the Minister for Environment, as a body responsible for species protection (in Poland almost all bird species are protected), but the ringing as such was not mentioned in any act of the Polish law, and it was not mentioned in any document of the Polish Academy of Sciences too.

The Institute for Ornithology PAS, as independent research unit had to get its own constitution. One of the paragraphs of that constitution is orientated on ringing, and national ringing scheme is mentioned there as one of main duties of the Institute. That constitution, signed by the President of PAS, there is the first document, in which ringing is mentioned among duties of the Polish Academy of Sciences. It was a good result obtained at that moment.

Unfortunately, the position of the ringing scheme in Poland became much more complicated in the middle of 2002, after declaring by the Parliament the new act about the protection of animals. In this act the definition of the experiment on animals has been changed, and according to that definition bird ringing was included to the scope of such experiments.

The whole scope of experiments on animals there is in the justification of the National Ethic Committee (NEC), reporting to the Ministry for Science. For

every experiment the person planning the experiment is obliged to get the permission from NEC. Such preparation would be necessary for every ringing activity. What did it mean for ringing in practice is clear for every ringer.

After very heavy long lasting discussions with NEC we achieved the situation in which the existence of the national ringing scheme is accepted and all decisions connected with ringing licenses are shifted by NEC to the Institute for Ornithology. This solution is good for the moment but not good enough for long existence of ringing in Poland – it may be changed by every new NEC body.

For that reason we try to introduce bird ringing to a new act on nature protection, which is prepared by the Polish Parliament now. In the draft version of that act, ringing is treated as activity removed from the scope of experiments on animals. According to that propose bird ringing will be subordinated to the Ministry of Environment, which is responsible for all problems of nature protection in Poland. If this law is accepted by the Parliament bird ringing in Poland will be introduced to the national law system. The executive regulations will be issued by the Ministry for Environment and we do hope that this regulation will be beneficial for the system. We do hope that all the system will be ready this year.

Completely other problems creates funding the activity of ringing scheme. The research unit (as the Institute) gets statutory payment from the State, which depends on ranking, in which mainly printed papers (prepared in the unit) are taken into consideration. That means that ringing scheme is not able to contribute successfully to this ranking and there is necessary to find funds for it from sources different than the state budget. In years 1990-1998 the ringing scheme activity was paid from funds got from so called *fund for special projects*. Unfortunately that possibility of funding was lost by the late Institute of Ecology since 1999 and it is almost impossible to recreate it now. Summarizing: at the moment we are able to get funds for about 25% of ringing scheme costs from the state budget. For remaining 75% of the ringing scheme budget we are searching for other sources of funds.

Since 2002 year we ordered payments for the use of rings from professional ringers, who get funds for their research from different sources. The other ringers are not paying for rings at the moment but instead they meet different limitations in ringing, specified by the Scheme. This solution gives us additional 5% of the budget. The rest has to be paid from the general budget of the Institute.

This solution is possible for very short period only and not for the long lasting run of the ringing scheme in the country. If we are not able to generate new sources of funds for ringing scheme it will be necessary to limit drastically

ringing activity in Poland in the nearest future. For that reason it is necessary to get funding for ringing and especially for funding the activity of ringing schemes from international funds, most probably from EU funds. We are afraid such funding will be crucial for the existence of ringing not only in Poland. This is the conclusion which we address to the EURING Board as a matter of urgency.

Ringers and ringing courses

All ringers are licensed every year by the Institute for Ornithology PAS on the base of the permission given by the Ministry for Environment, and since 2002 on the base of the permission given by the National Ethic Committee.

The candidates for ringers for their first license have to pass an exam, including the field test checking the knowledge of bird species, age and sex criteria as well as the attitude of the candidate to living birds kept in hand. In 2001 eleven, in 2002 twelve new-accepted ringers got their ringer licenses.

In 2001 there were 241 licensed ringers in Poland, but only 171 of them were ringing actively.

In 2002 there were 251 licensed ringers in Poland, 169 were ringing actively.

Rings

Gdańsk rings are made by the Polish producer "Aranea". 22 different sizes made of two kinds of material (steel and aluminium) are used. From June 2001 ringers have to pay for same rings. Only rings used on nestlings and breeding birds with known status and rings used as a part of CES or Swallow Project are free.

Colour-ringing and other marks

Colour-ringing and marking is coordinated by the ringing scheme, but administration is done by the users. There are regular contacts with international coordinators. The colour-ring website of Dirk Reas is used regularly.

Ringing projects

1. International projects

- CES,
- EURING Swallow Project,

- International Monitoring of Raptors & Owls (White-tailed Eagle, Osprey, Lesser Spotted Eagle, Spotted Eagle, Eagle Owl),
- Monitoring of Waders during autumn migration (3 sites),
- SE European Network (6 sites).

2. National projects

- Monitoring of the White Stork in Poland,
- Wintering Jack Snipe in Poland,
- Monitoring of the breeding population of the Mute Swan,
- Monitoring of the breeding population of the Whooper Swan,
- Monitoring of the Mołozewo breeding population of the Ringed Plover,
- Other species projects (Cormorant, Night Heron, Black Stork, Greylag Goose, Kestrel, Peregrine Falcon, Mediterranean Gull, Herring Gull, Yellow-legged Gull, Syrian Woodpecker, House Martin, Citrine Wagtail, Dipper and others).

CES

Gdansk Ringing Scheme joined the Constant Effort Site Project in 1999. From 1999 to 2002 working on average 10–14 CES sites yearly.

EURING Swallow Project

Gdansk Ringing Scheme joined the EURING Swallow Project in 2000. There were 2782 nestlings, 253 breeding adults and 4373 Barn Swallows captured in reedbeds (at 9 roosting places) ringed in Poland in 2000 by 15 ringers.

During next two years number of ringers involved in the project increased (25 ringers in 2001, 16 in 2002).

There were 6794 nestlings, 736 breeding adults and 9881 Swallows captured at 20 roosting places ringed in Poland in 2001.

In 2002 – 6161 nestlings were ringed, 452 adults at the nests and 4955 birds caught in eight sites in reedbeds.

We have received 30 foreign recoveries of birds ringed in Poland in years 2000–2002 (from Hungary – 17, Central African Republic – 4, Czech Republic – 3, Republic of South Africa – 1, Botswana – 1, Dem. Republic of Congo – 1, Zambia – 1, Italy – 1, Croatia – 1).

There were also 4 Barn Swallows ringed abroad (Lithuania - 1, Hungary – 1, Slovakia (Praha) – 1, Finland – 1) and recovered in Poland.

Computer system development

Ringling data

All ringling data have been put into computer since 2001. Ringling details from years 1931–2002 were put into computer partially (only number of ring, species, sex, age and data).

In 2002 about 60% Polish ringers sent data by floppy discs.

Recoveries

Since 1987 all recoveries have been prepared by computer. About 80% of recoveries received earlier has been already put into computer as well.

Number of recoveries in 2001

7407 – total number
1381 – recoveries of birds ringed abroad
6026 – Polish recoveries

Number of recoveries in 2002

14501 – total number
1492 – recoveries of birds ringed abroad
13009 – Polish recoveries

Part 2

**Number of birds ringed and recovered by the
Gdańsk Ringing Scheme in 2001 and 2002**

**Number of birds ringed and recovered by the Gdańsk Ringing Scheme
in 2001**

EURING CODE	SPECIES	PULLI	FULL GROWN	TOTAL	FOUND IN 2001
00070	<i>Tachybaptus ruficollis</i>	0	7	7	0
00090	<i>Podiceps cristatus</i>	0	1	1	0
00100	<i>Podiceps griseigena</i>	0	14	14	0
00120	<i>Podiceps nigricollis</i>	0	6	6	1
00720	<i>Phalacrocorax carbo</i>	103	8	111	23
00950	<i>Botaurus stellaris</i>	0	2	2	0
00980	<i>Ixobrychus minutus</i>	5	8	13	0
01040	<i>Nycticorax nycticorax</i>	106	2	108	1
01220	<i>Ardea cinerea</i>	13	1	14	2
01310	<i>Ciconia nigra</i>	47	2	49	4
01340	<i>Ciconia ciconia</i>	632	16	648	35
01520	<i>Cygnus olor</i>	159	801	960	3321
01540	<i>Cygnus cygnus</i>	0	0	0	28
01570	<i>Anser fabalis</i>	0	1	1	0
01590	<i>Anser albifrons</i>	0	3	3	3
01610	<i>Anser anser</i>	0	1	1	17
01730	<i>Tadorna tadorna</i>	0	0	0	1
01780	<i>Aix galericulata</i>	0	9	9	1
01790	<i>Anas penelope</i>	0	1	1	0
01820	<i>Anas strepera</i>	0	1	1	0
01840	<i>Anas crecca</i>	0	46	46	8
01860	<i>Anas platyrhynchos</i>	25	182	207	32
01890	<i>Anas acuta</i>	0	1	1	0
01910	<i>Anas querquedula</i>	0	27	27	0
01940	<i>Anas clypeata</i>	0	3	3	2
02230	<i>Mergus merganser</i>	0	1	1	0
02310	<i>Pernis apivorus</i>	2	1	3	0
02380	<i>Milvus migrans</i>	0	0	0	1
02390	<i>Milvus milvus</i>	0	1	1	0
02430	<i>Haliaeetus albicilla</i>	74	9	83	3
02600	<i>Circus aeruginosus</i>	36	6	42	0
02610	<i>Circus cyaneus</i>	0	1	1	0
02630	<i>Circus pygargus</i>	0	1	1	0
02670	<i>Accipiter gentilis</i>	55	10	65	2
02690	<i>Accipiter nisus</i>	20	183	203	7

EURING CODE	SPECIES	PULLI	FULL GROWN	TOTAL FOUND IN 2001	
02870	<i>Buteo buteo</i>	49	29	78	2
02920	<i>Aquila pomarina</i>	135	1	136	3
02960	<i>Aquila chrysaetos</i>	7	0	7	0
03010	<i>Pandion haliaetus</i>	3	1	4	0
03040	<i>Falco tinnunculus</i>	123	35	158	1
03090	<i>Falco columbarius</i>	0	1	1	0
03200	<i>Falco peregrinus</i>	19	0	19	0
03350	<i>Tetrao urogallus</i>	0	14	14	0
03670	<i>Perdix perdix</i>	0	49	49	0
03700	<i>Coturnix coturnix</i>	0	8	8	0
04070	<i>Rallus aquaticus</i>	20	96	116	0
04080	<i>Porzana porzana</i>	0	47	47	0
04100	<i>Porzana parva</i>	0	2	2	0
04210	<i>Crex crex</i>	0	57	57	0
04240	<i>Gallinula chloropus</i>	7	29	36	0
04290	<i>Fulica atra</i>	1	87	88	0
04330	<i>Grus grus</i>	10	0	10	0
04500	<i>Haematopus ostralegus</i>	0	3	3	0
04690	<i>Charadrius dubius</i>	5	14	19	0
04700	<i>Charadrius hiaticula</i>	17	61	78	5
04850	<i>Pluvialis apricaria</i>	0	1	1	0
04860	<i>Pluvialis squatarola</i>	0	8	8	0
04930	<i>Vanellus vanellus</i>	36	17	53	3
04960	<i>Calidris canutus</i>	0	52	52	1
04970	<i>Calidris alba</i>	0	1	1	1
05010	<i>Calidris minuta</i>	0	16	16	0
05020	<i>Calidris temminckii</i>	0	7	7	0
05090	<i>Calidris ferruginea</i>	0	50	50	2
05120	<i>Calidris alpina</i>	0	635	635	54
05140	<i>Limicola falcinellus</i>	0	3	3	0
05170	<i>Philomachus pugnax</i>	0	141	141	2
05180	<i>Lymnocyptes minimus</i>	0	244	244	2
05190	<i>Gallinago gallinago</i>	0	709	709	16
05200	<i>Gallinago media</i>	0	4	4	0
05290	<i>Scolopax rusticola</i>	0	22	22	1
05320	<i>Limosa limosa</i>	0	1	1	0
05340	<i>Limosa lapponica</i>	0	5	5	0
05430	<i>Tringa nebularia</i>	0	9	9	1

EURING CODE	SPECIES	PULLI	FULL GROWN	TOTAL FOUND IN 2001	
05450	Tringa erythropus	0	6	6	0
05460	Tringa totanus	3	18	21	2
05530	Tringa ochropus	0	12	12	0
05540	Tringa glareola	0	924	924	3
05560	Actitis hypoleucos	0	195	195	4
05610	Arenaria interpres	0	15	15	2
05640	Phalaropus lobatus	0	1	1	0
05750	Larus melanocephalus	7	16	23	25
05820	Larus ridibundus	2803	1129	3932	413
05900	Larus canus	562	345	907	24
05910	Larus fuscus	0	1	1	0
05920	Larus argentatus	230	403	633	366
05926	Larus cachinnans michahellis	0	1	1	0
05927	Larus cachinnans	236	20	256	5
06000	Larus marinus	0	10	10	8
06150	Sterna hirundo	524	0	524	1
06240	Sterna albifrons	4	0	4	0
06260	Chlidonias hybridus	217	56	273	0
06270	Chlidonias niger	20	6	26	0
06280	Chlidonias leucopterus	35	0	35	0
06700	Columba palumbus	0	4	4	0
06840	Streptopelia decaocto	14	25	39	0
06870	Streptopelia turtur	0	1	1	0
07240	Cuculus canorus	4	10	14	0
07350	Tyto alba	44	20	64	0
07390	Otus scops	0	1	1	0
07440	Bubo bubo	8	0	8	6
07510	Glaucidium passerinum	11	3	14	0
07570	Athene noctua	5	6	11	0
07610	Strix aluco	8	18	26	1
07670	Asio otus	6	282	288	4
07680	Asio flammeus	0	53	53	1
07700	Aegolius funereus	0	33	33	0
07780	Caprimulgus europaeus	0	5	5	0
07950	Apus apus	10	30	40	0
08310	Alcedo atthis	70	455	525	14
08410	Coracias garrulus	0	1	1	0
08460	Upupa epops	0	1	1	0

EURING CODE	SPECIES	PULLI	FULL GROWN	TOTAL	FOUND IN 2001
08480	<i>Jynx torquilla</i>	51	41	92	0
08550	<i>Picus canus</i>	0	5	5	0
08560	<i>Picus viridis</i>	0	5	5	0
08630	<i>Dryocopus martius</i>	0	24	24	0
08760	<i>Dendrocopos major</i>	7	655	662	22
08780	<i>Dendrocopos syriacus</i>	0	3	3	1
08830	<i>Dendrocopos medius</i>	1	22	23	1
08840	<i>Dendrocopos leucotos</i>	0	1	1	0
08870	<i>Dendrocopos minor</i>	0	70	70	2
09720	<i>Galerida cristata</i>	0	2	2	0
09740	<i>Lullula arborea</i>	5	7	12	0
09760	<i>Alauda arvensis</i>	14	11	25	0
09810	<i>Riparia riparia</i>	0	1025	1025	1
09920	<i>Hirundo rustica</i>	7379	11461	18840	146
10010	<i>Delichon urbica</i>	232	196	428	0
10090	<i>Anthus trivialis</i>	0	121	121	2
10110	<i>Anthus pratensis</i>	8	20	28	1
10140	<i>Anthus spinoletta</i>	0	2	2	0
10162	<i>Luscinia svecica</i>	0	12	12	0
10170	<i>Motacilla flava</i>	13	716	729	6
10180	<i>Motacilla citreola</i>	14	1	15	0
10190	<i>Motacilla cinerea</i>	29	33	62	1
10200	<i>Motacilla alba</i>	28	282	310	5
10480	<i>Bombycilla garrulus</i>	0	277	277	0
10500	<i>Cinclus cinclus</i>	55	16	71	6
10660	<i>Troglodytes troglodytes</i>	8	477	485	0
10840	<i>Prunella modularis</i>	7	433	440	11
10950	<i>Cercotrichas galactotes</i>	0	1	1	0
10990	<i>Erithacus rubecula</i>	28	11583	11611	21
11030	<i>Luscinia luscinia</i>	1	120	121	0
11040	<i>Luscinia megarhynchos</i>	1	97	98	3
11060	<i>Luscinia svecica</i>	0	64	64	0
11210	<i>Phoenicurus ochruros</i>	167	266	433	4
11220	<i>Phoenicurus phoenicurus</i>	40	591	631	1
11370	<i>Saxicola rubetra</i>	16	85	101	0
11390	<i>Saxicola torquata</i>	0	16	16	0
11440	<i>Oenanthe isabellina</i>	0	1	1	0
11460	<i>Oenanthe oenanthe</i>	1	12	13	0

EURING CODE	SPECIES	PULLI	FULL GROWN	TOTAL	FOUND IN 2001
11480	<i>Oenanthe hispanica</i>	0	1	1	0
11860	<i>Turdus torquatus</i>	0	1	1	0
11870	<i>Turdus merula</i>	363	1527	1890	31
11980	<i>Turdus pilaris</i>	35	191	226	2
12000	<i>Turdus philomelos</i>	92	1508	1600	9
12010	<i>Turdus iliacus</i>	0	154	154	0
12020	<i>Turdus viscivorus</i>	0	8	8	0
12270	<i>Prinia gracilis</i>	0	5	5	0
12360	<i>Locustella naevia</i>	0	58	58	0
12370	<i>Locustella fluviatilis</i>	0	22	22	0
12380	<i>Locustella luscinioides</i>	0	364	364	4
12410	<i>Acrocephalus melanopogon</i>	0	1	1	0
12420	<i>Acrocephalus paludicola</i>	1	25	26	0
12430	<i>Acrocephalus schoenobaenus</i>	115	2774	2889	9
12500	<i>Acrocephalus palustris</i>	0	845	845	0
12510	<i>Acrocephalus scirpaceus</i>	2	5614	5616	51
12520	<i>Acrocephalus stentoreus</i>	0	151	151	0
12530	<i>Acrocephalus arundinaceus</i>	37	497	534	5
12550	<i>Hippolais pallida</i>	0	9	9	0
12590	<i>Hippolais icterina</i>	12	241	253	1
12650	<i>Sylvia cantillans</i>	0	3	3	0
12670	<i>Sylvia melanocephala</i>	0	2	2	0
12690	<i>Sylvia rueppelli</i>	0	13	13	0
12730	<i>Sylvia nisoria</i>	0	94	94	0
12740	<i>Sylvia curruca</i>	28	1068	1096	5
12750	<i>Sylvia communis</i>	2	819	821	8
12760	<i>Sylvia borin</i>	4	953	957	5
12770	<i>Sylvia atricapilla</i>	70	4302	4372	6
13070	<i>Phylloscopus bonelli</i>	0	5	5	0
13080	<i>Phylloscopus sibilatrix</i>	7	96	103	0
13110	<i>Phylloscopus collybita</i>	31	3231	3262	11
13120	<i>Phylloscopus trochilus</i>	121	2264	2385	20
13140	<i>Regulus regulus</i>	0	5072	5072	6
13150	<i>Regulus ignicapillus</i>	0	50	50	0
13350	<i>Muscicapa striata</i>	30	255	285	0
13430	<i>Ficedula parva</i>	21	64	85	0
13480	<i>Ficedula albicollis</i>	268	55	323	0
13490	<i>Ficedula hypoleuca</i>	236	496	732	2

EURING CODE	SPECIES	PULLI	FULL GROWN	TOTAL	FOUND IN 2001
13640	<i>Panurus biarmicus</i>	102	1057	1159	164
14370	<i>Aegithalos caudatus</i>	0	3802	3802	20
14400	<i>Parus palustris</i>	332	228	560	17
14420	<i>Parus montanus</i>	17	603	620	25
14540	<i>Parus cristatus</i>	3	33	36	1
14610	<i>Parus ater</i>	121	335	456	3
14620	<i>Parus caeruleus</i>	2228	6650	8878	198
14640	<i>Parus major</i>	5964	14188	20152	560
14790	<i>Sitta europaea</i>	322	151	473	14
14860	<i>Certhia familiaris</i>	7	364	371	10
14870	<i>Certhia brachydactyla</i>	0	73	73	0
14900	<i>Remiz pendulinus</i>	9	444	453	11
15080	<i>Oriolus oriolus</i>	0	41	41	0
15150	<i>Lanius collurio</i>	245	226	471	5
15200	<i>Lanius excubitor</i>	55	9	64	0
15230	<i>Lanius senator</i>	0	1	1	0
15390	<i>Garrulus glandarius</i>	6	96	102	0
15490	<i>Pica pica</i>	24	45	69	0
15570	<i>Nucifraga caryocatactes</i>	0	2	2	0
15600	<i>Corvus monedula</i>	1	35	36	3
15630	<i>Corvus frugilegus</i>	88	21	109	0
15673	<i>Corvus corone cornix</i>	86	1	87	0
15720	<i>Corvus corax</i>	1	0	1	0
15820	<i>Sturnus vulgaris</i>	561	681	1242	4
15910	<i>Passer domesticus</i>	0	24	24	1
15920	<i>Passer hispaniolensis</i>	0	4	4	0
15980	<i>Passer montanus</i>	0	38	38	0
16360	<i>Fringilla coelebs</i>	19	1191	1210	3
16380	<i>Fringilla montifringilla</i>	0	165	165	0
16400	<i>Serinus serinus</i>	5	32	37	0
16490	<i>Carduelis chloris</i>	4	2623	2627	21
16530	<i>Carduelis carduelis</i>	6	184	190	2
16540	<i>Carduelis spinus</i>	0	1044	1044	1
16600	<i>Carduelis cannabina</i>	47	108	155	2
16630	<i>Carduelis flammea</i>	0	88	88	0
16660	<i>Loxia curvirostra</i>	0	4	4	1
16790	<i>Carpodacus erythrinus</i>	0	96	96	0
17100	<i>Pyrrhula pyrrhula</i>	0	394	394	10

EURING CODE	SPECIES	PULLI	FULL GROWN	TOTAL	FOUND IN 2001
17170	Coc. coccothraustes	1	226	227	1
18570	Emberiza citrinella	17	1056	1073	23
18660	Emberiza hortulana	0	2	2	0
18740	Emberiza pusilla	0	1	1	0
18770	Emberiza schoeniclus	0	1131	1131	30
18820	Miliaria calandra	0	69	69	0
24998	Aquila clanga/pomarina	1	0	1	0
24998	Larus argentatus/cachinnans	0	0	0	22
24998	Delichon urbica x Hir. rustica	0	1	1	0
24998	Parus caeruleus x cyanus	0	1	1	0
TOTAL		26 382	107 081	133 463	6 026

Remarks:

1. Some species were ringed in Egypt.
2. Only recoveries concerning Polish rings are put here.

**Number of birds ringed and recovered by the Gdańsk Ringing Scheme
in 2002**

EURING CODE	SPECIES	PULLI	FULL GROWN	TOTAL	FOUND IN 2001
00070	<i>Tachybaptus ruficollis</i>	0	1	1	0
00090	<i>Podiceps cristatus</i>	0	9	9	0
00100	<i>Podiceps griseigena</i>	4	9	13	0
00120	<i>Podiceps nigricollis</i>	0	3	3	0
00720	<i>Phalacrocorax carbo</i>	43	4	47	12
00980	<i>Ixobrychus minutus</i>	38	9	47	1
01040	<i>Nycticorax nycticorax</i>	189	0	189	0
01210	<i>Egretta alba</i>	8	0	8	0
01220	<i>Ardea cinerea</i>	5	5	10	0
01310	<i>Ciconia nigra</i>	83	0	83	0
01340	<i>Ciconia ciconia</i>	935	12	947	38
01520	<i>Cygnus olor</i>	295	853	1148	3564
01540	<i>Cygnus cygnus</i>	8	2	10	5
01570	<i>Anser fabalis</i>	0	0	0	2
01590	<i>Anser albifrons</i>	0	2	2	0
01610	<i>Anser anser</i>	37	27	64	6
01680	<i>Branta bernicla</i>	0	1	1	0
01780	<i>Aix galericulata</i>	0	5	5	0
01820	<i>Anas strepera</i>	0	3	3	2
01840	<i>Anas crecca</i>	0	26	26	0
01860	<i>Anas platyrhynchos</i>	25	130	155	48
01910	<i>Anas querquedula</i>	0	9	9	0
02030	<i>Aythya fuligula</i>	0	3	3	0
02230	<i>Mergus merganser</i>	0	0	0	1
02310	<i>Pernis apivorus</i>	4	0	4	0
02390	<i>Milvus milvus</i>	3	0	3	0
02430	<i>Haliaeetus albicilla</i>	83	7	90	4
02600	<i>Circus aeruginosus</i>	52	3	55	0
02610	<i>Circus cyaneus</i>	0	2	2	0
02670	<i>Accipiter gentilis</i>	34	9	43	2
02690	<i>Accipiter nisus</i>	53	201	254	2
02870	<i>Buteo buteo</i>	52	39	91	4
02900	<i>Buteo lagopus</i>	0	3	3	0
02920	<i>Aquila pomarina</i>	149	0	149	1
02930	<i>Aquila clanga</i>	7	1	8	0

EURING CODE	SPECIES	PULLI	FULL GROWN	TOTAL	FOUND IN 2001
02960	<i>Aquila chrysaetos</i>	9	0	9	1
03010	<i>Pandion haliaetus</i>	18	0	18	0
03040	<i>Falco tinnunculus</i>	240	75	315	5
03100	<i>Falco subbuteo</i>	2	0	2	0
03200	<i>Falco peregrinus</i>	28	0	28	0
03260	<i>Bonasa bonasia</i>	0	2	2	0
03320	<i>Tetrao tetrix</i>	0	14	14	0
03350	<i>Tetrao urogallus</i>	0	4	4	0
03700	<i>Coturnix coturnix</i>	0	6	6	0
04070	<i>Rallus aquaticus</i>	5	12	17	7
04080	<i>Porzana porzana</i>	0	5	5	0
04100	<i>Porzana parva</i>	0	2	2	0
04210	<i>Crex crex</i>	2	151	153	0
04240	<i>Gallinula chloropus</i>	0	2	2	0
04290	<i>Fulica atra</i>	0	130	130	3
04330	<i>Grus grus</i>	2	1	3	0
04690	<i>Charadrius dubius</i>	0	122	122	5
04700	<i>Charadrius hiaticula</i>	23	38	61	14
04860	<i>Pluvialis squatarola</i>	0	3	3	3
04930	<i>Vanellus vanellus</i>	22	28	50	2
04960	<i>Calidris canutus</i>	0	6	6	34
04970	<i>Calidris alba</i>	0	2	2	0
05010	<i>Calidris minuta</i>	0	23	23	23
05020	<i>Calidris temminckii</i>	0	68	68	0
05090	<i>Calidris ferruginea</i>	0	24	24	14
05120	<i>Calidris alpina</i>	0	294	294	524
05140	<i>Limicola falcinellus</i>	0	10	10	0
05170	<i>Philomachus pugnax</i>	0	189	189	0
05180	<i>Lymnocyptes minimus</i>	0	393	393	0
05190	<i>Gallinago gallinago</i>	0	778	778	26
05200	<i>Gallinago media</i>	0	4	4	0
05290	<i>Scolopax rusticola</i>	0	63	63	2
05340	<i>Limosa lapponica</i>	0	28	28	1
05380	<i>Numenius phaeopus</i>	0	0	0	1
05430	<i>Tringa nebularia</i>	0	11	11	0
05450	<i>Tringa erythropus</i>	0	10	10	0
05460	<i>Tringa totanus</i>	0	22	22	4

EURING CODE	SPECIES	PULLI	FULL GROWN	TOTAL	FOUND IN 2001
05470	<i>Tringa stagnatilis</i>	0	2	2	0
05530	<i>Tringa ochropus</i>	0	33	33	0
05540	<i>Tringa glareola</i>	0	1605	1605	53
05550	<i>Xenus cinereus</i>	0	1	1	0
05560	<i>Actitis hypoleucos</i>	0	531	531	2
05610	<i>Arenaria interpres</i>	0	4	4	10
05640	<i>Phalaropus lobatus</i>	0	2	2	0
05750	<i>Larus melanocephalus</i>	5	10	15	12
05820	<i>Larus ridibundus</i>	2632	859	3491	589
05900	<i>Larus canus</i>	431	465	896	37
05920	<i>Larus argentatus</i>	131	575	706	326
05927	<i>Larus cachinnans</i>	77	30	107	7
05990	<i>Larus hyperboreus</i>	0	1	1	1
06000	<i>Larus marinus</i>	0	14	14	0
06150	<i>Sterna hirundo</i>	342	4	346	6
06240	<i>Sterna albifrons</i>	3	0	3	0
06260	<i>Chlidonias hybridus</i>	21	6	27	12
06270	<i>Chlidonias niger</i>	10	2	12	0
06280	<i>Chlidonias leucopterus</i>	224	0	224	0
06700	<i>Columba palumbus</i>	9	13	22	0
06840	<i>Streptopelia decaocto</i>	21	18	39	1
06870	<i>Streptopelia turtur</i>	0	1	1	0
06900	<i>Streptopelia senegalensis</i>	0	1	1	0
07240	<i>Cuculus canorus</i>	0	6	6	0
07350	<i>Tyto alba</i>	92	22	114	3
07390	<i>Otus scops</i>	0	1	1	0
07440	<i>Bubo bubo</i>	14	3	17	0
07510	<i>Glaucidium passerinum</i>	0	2	2	2
07570	<i>Athene noctua</i>	1	8	9	0
07610	<i>Strix aluco</i>	14	26	40	1
07670	<i>Asio otus</i>	12	815	827	6
07680	<i>Asio flammeus</i>	0	44	44	0
07700	<i>Aegolius funereus</i>	0	28	28	1
07780	<i>Caprimulgus europaeus</i>	0	9	9	0
07950	<i>Apus apus</i>	23	23	46	0
08310	<i>Alcedo atthis</i>	117	175	292	31
08330	<i>Ceryle rudis</i>	0	1	1	0

EURING CODE	SPECIES	PULLI	FULL GROWN	TOTAL FOUND IN 2001	FOUND IN 2001
08410	<i>Coracias garrulus</i>	0	0	0	1
08460	<i>Upupa epops</i>	0	7	7	0
08480	<i>Jynx torquilla</i>	42	33	75	0
08550	<i>Picus canus</i>	0	2	2	0
08560	<i>Picus viridis</i>	0	2	2	1
08630	<i>Dryocopus martius</i>	2	12	14	0
08760	<i>Dendrocopos major</i>	15	202	217	35
08780	<i>Dendrocopos syriacus</i>	0	10	10	0
08830	<i>Dendrocopos medius</i>	0	21	21	5
08840	<i>Dendrocopos leucotos</i>	0	3	3	0
08870	<i>Dendrocopos minor</i>	0	39	39	3
09740	<i>Lullula arborea</i>	0	12	12	0
09760	<i>Alauda arvensis</i>	8	21	29	0
09810	<i>Riparia riparia</i>	4	581	585	11
09920	<i>Hirundo rustica</i>	6510	6592	13102	676
10010	<i>Delichon urbica</i>	344	247	591	18
10050	<i>Anthus campestris</i>	0	1	1	0
10090	<i>Anthus trivialis</i>	8	163	171	0
10110	<i>Anthus pratensis</i>	0	35	35	0
10120	<i>Anthus cervinus</i>	0	1	1	0
10140	<i>Anthus spinoletta</i>	0	2	2	0
10143	<i>Anthus petrosus</i>	0	2	2	0
10162	<i>Luscinia svecica cyanecula</i>	0	8	8	0
10170	<i>Motacilla flava</i>	5	957	962	14
10180	<i>Motacilla citreola</i>	5	2	7	0
10190	<i>Motacilla cinerea</i>	69	39	108	0
10200	<i>Motacilla alba</i>	25	408	433	8
10480	<i>Bombycilla garrulus</i>	0	1	1	0
10500	<i>Cinclus cinclus</i>	197	153	350	2
10660	<i>Troglodytes troglodytes</i>	30	397	427	9
10840	<i>Prunella modularis</i>	0	523	523	15
10950	<i>Cercotrichas galactotes</i>	0	2	2	0
10990	<i>Erithacus rubecula</i>	9	11105	11114	203
11030	<i>Luscinia luscinia</i>	0	108	108	32
11040	<i>Luscinia megarhynchos</i>	0	47	47	16
11060	<i>Luscinia svecica</i>	0	55	55	0
11210	<i>Phoenicurus ochruros</i>	105	222	327	16

EURING CODE	SPECIES	PULLI	FULL GROWN	TOTAL	FOUND IN 2001
11220	<i>Phoenicurus phoenicurus</i>	22	426	448	6
11370	<i>Saxicola rubetra</i>	0	137	137	0
11390	<i>Saxicola torquata</i>	6	8	14	0
11440	<i>Oenanthe isabellina</i>	0	5	5	0
11460	<i>Oenanthe oenanthe</i>	0	10	10	0
11860	<i>Turdus torquatus</i>	0	1	1	0
11870	<i>Turdus merula</i>	409	1887	2296	127
11980	<i>Turdus pilaris</i>	37	196	233	3
12000	<i>Turdus philomelos</i>	83	1587	1670	24
12010	<i>Turdus iliacus</i>	0	130	130	0
12020	<i>Turdus viscivorus</i>	0	6	6	0
12270	<i>Prinia gracilis</i>	0	6	6	0
12360	<i>Locustella naevia</i>	0	71	71	2
12370	<i>Locustella fluviatilis</i>	0	27	27	7
12380	<i>Locustella luscinioides</i>	0	263	263	10
12420	<i>Acrocephalus paludicola</i>	9	27	36	65
12430	<i>Acrocephalus schoenobaenus</i>	132	2441	2573	116
12500	<i>Acrocephalus palustris</i>	148	1209	1357	65
12510	<i>Acrocephalus scirpaceus</i>	87	4690	4777	279
12520	<i>Acrocephalus stentoreus</i>	0	59	59	0
12530	<i>Acrocephalus arundinaceus</i>	55	384	439	11
12550	<i>Hippolais pallida</i>	0	6	6	0
12590	<i>Hippolais icterina</i>	6	295	301	30
12650	<i>Sylvia cantillans</i>	0	5	5	0
12670	<i>Sylvia melanocephala</i>	0	1	1	0
12690	<i>Sylvia rueppelli</i>	0	3	3	0
12730	<i>Sylvia nisoria</i>	2	76	78	4
12740	<i>Sylvia curruca</i>	20	1479	1499	63
12750	<i>Sylvia communis</i>	24	1054	1078	60
12760	<i>Sylvia borin</i>	5	1159	1164	61
12770	<i>Sylvia atricapilla</i>	67	6798	6865	197
13000	<i>Phylloscopus inornatus</i>	0	1	1	0
13070	<i>Phylloscopus bonelli</i>	0	1	1	0
13071	<i>Phylloscopus orientalis</i>	0	3	3	0
13080	<i>Phylloscopus sibilatrix</i>	4	172	176	0
13110	<i>Phylloscopus collybita</i>	3	2581	2584	74
13120	<i>Phylloscopus trochilus</i>	125	1731	1856	73

EURING CODE	SPECIES	PULLI	FULL GROWN	TOTAL	FOUND IN 2001
13140	<i>Regulus regulus</i>	0	1412	1412	3
13150	<i>Regulus ignicapillus</i>	0	40	40	0
13350	<i>Muscicapa striata</i>	30	342	372	2
13430	<i>Ficedula parva</i>	64	70	134	0
13480	<i>Ficedula albicollis</i>	157	40	197	154
13490	<i>Ficedula hypoleuca</i>	208	634	842	0
13640	<i>Panurus biarmicus</i>	67	232	299	42
14370	<i>Aegithalos caudatus</i>	0	482	482	61
14400	<i>Parus palustris</i>	185	144	329	36
14420	<i>Parus montanus</i>	10	231	241	89
14540	<i>Parus cristatus</i>	6	41	47	0
14610	<i>Parus ater</i>	227	406	633	3
14620	<i>Parus caeruleus</i>	1746	3965	5711	724
14640	<i>Parus major</i>	4673	8506	13179	3231
14790	<i>Sitta europaea</i>	208	106	314	50
14860	<i>Certhia familiaris</i>	0	131	131	9
14870	<i>Certhia brachydactyla</i>	0	58	58	11
14900	<i>Remiz pendulinus</i>	12	264	276	11
15080	<i>Oriolus oriolus</i>	0	30	30	0
15150	<i>Lanius collurio</i>	215	214	429	12
15200	<i>Lanius excubitor</i>	21	45	66	0
15230	<i>Lanius senator</i>	0	1	1	0
15390	<i>Garrulus glandarius</i>	13	225	238	5
15490	<i>Pica pica</i>	16	11	27	1
15570	<i>Nucifraga caryocatactes</i>	0	2	2	0
15600	<i>Corvus monedula</i>	26	8	34	1
15630	<i>Corvus frugilegus</i>	51	39	90	1
15673	<i>Corvus corone cornix</i>	24	1	25	0
15720	<i>Corvus corax</i>	14	1	15	0
15820	<i>Sturnus vulgaris</i>	1044	391	1435	28
15910	<i>Passer domesticus</i>	0	60	60	2
15920	<i>Passer hispaniolensis</i>	0	6	6	0
15980	<i>Passer montanus</i>	0	119	119	4
16360	<i>Fringilla coelebs</i>	19	1179	1198	55
16380	<i>Fringilla montifringilla</i>	0	33	33	0
16400	<i>Serinus serinus</i>	1	26	27	0
16490	<i>Carduelis chloris</i>	25	2789	2814	493

EURING CODE	SPECIES	PULLI	FULL GROWN	TOTAL	FOUND IN 2001
16530	<i>Carduelis carduelis</i>	1	137	138	4
16540	<i>Carduelis spinus</i>	0	519	519	4
16600	<i>Carduelis cannabina</i>	44	54	98	0
16630	<i>Carduelis flammea</i>	0	70	70	0
16660	<i>Loxia curvirostra</i>	0	166	166	0
16790	<i>Carpodacus erythrinus</i>	21	102	123	2
17100	<i>Pyrrhula pyrrhula</i>	6	451	457	10
17170	<i>Coc. coccothraustes</i>	5	460	465	7
18570	<i>Emberiza citrinella</i>	6	752	758	79
18770	<i>Emberiza schoeniclus</i>	6	851	857	63
18820	<i>Miliaria calandra</i>	0	12	12	0
24998	<i>Larus argentatus/cachinnans</i>	19	4	23	9
TOTAL		24 429	86 050	110 479	13 009

Remarks:

1. Some species were ringed in Egypt and Israel.
2. Only recoveries concerning Polish rings are put here.