



## Avian Demography Unit

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The Tony and Lisette Lewis  
Foundation South Africa



The Avian Demography Unit  
conducts the Coordinated  
Waterbird Counts in partner-  
ship with BirdLife South Africa.



# COORDINATED WATERBIRD COUNTS (CWAC)

## Newsletter 20

## June 2002

### Dear CWACers

With the first ten years of monitoring behind us, CWAC now enters its second decade. This is an achievement not only in itself for being the first long-term, country-wide waterbird monitoring programme, but is also a reflection of the excellent support and commitment that you, the volunteer, have given to CWAC. Without your enthusiasm and concern for our wetland avifauna, and the much-needed support of the programme's sponsors, CWAC would not be positioned as a key influence in South African waterbird and wetland conservation today – and long may this continue!

We hope that the next ten years will not only see present levels of coverage maintained (particularly at priority sites) and improved (in poorly censused regions), but that it will also see programme funding become stable and secure. We also hope that you will continue participating and having fun doing so!

With ten years' worth of waterbird data, we are now at a stage where this information needs to be critically assessed so that its conservation value can be considered and directed to vital waterbird conservation initiatives such as Ramsar and IBA designations, contributions to the African–Eurasian Waterbird Agreement (AEWA) (which falls under the Bonn Convention) and producing preliminary national waterbird population estimates for South Africa. It is important to collect data but even more important that the data be used in appropriate conservation programmes, both nationally and globally.

### Summer 2002 count

I hope that you all enjoyed your summer counts, as it has been another record count for CWAC! To date, a total of 362 736 birds have been counted from 287 sites. This is the second highest count for CWAC; the highest being 375 159 from 276 sites for the summer 2001 count. There are, however, some counts still outstanding and these are marked in the accompanying tables. If you have any outstanding counts please send the results in as soon as possible or let me know if the count was not done.

A large number of regularly counted sites (42) were not censused during summer 2002 and this has undoubtedly had an impact on the overall total. Many of these sites could not be counted due to inaccessible roads, heavy rain and/or other logistical problems. Some of these sites have also now been 'discontinued' which, although a cause for concern, can sometimes be inevitable. Personal observer commitments and/or the consistently low numbers of birds occurring at some sites usually lead to sites being discontinued.

### Interesting highlights

The focus for this issue and the next couple of issues will change from being species-based to site-based. This is to (1) highlight the importance that certain sites hold for particular species, especially where species counts reach regional (0.5%) or global (1%) thresholds for their estimated global populations and (2) to give compilers and counters an indication of some of South Africa's wetlands that are important for waterbird conservation.

#### Strandfontein Sewage Works

This site never fails to impress and, although numbers are down a little, this past summer count has again supported global and regional thresholds for a range of species, including Great Crested Grebe (25), Blacknecked Grebe (321), Dabchick (273), Greater Flamingo (1179), Cape Shoveller (1439), Avocet (458), Kelp Gull (2169) and Hartlaub's Gull (2021). The importance of this site as a prime waterbird refuge in South Africa cannot be over-emphasised, especially in the light of the planned construction of a new national road that will cut across the top end of the site and which would undoubtedly lead to increased levels of disturbance.

#### Den Staat Irrigation Dams

This site is turning out to be one of South Africa's hidden waterbird gems, after being registered only in July 2001. Located in the Limpopo Province near the Pondrft border post, the site lies adjacent to the newly proclaimed Limpopo National Park and is one of two farms that may yet be incorporated into the national park. This summer it again produced the highest national count for Whitefaced Duck with 1485 birds, representing 85% of the overall count for this species. The inaugural 2001 winter count produced a record 5600 individuals, which represented almost 40% of the total count for this species. This is the highest count for this species recorded by CWAC, but amazingly does not reach regional or global thresholds! Interestingly, CWAC data show a tendency for Whitefaced Duck numbers to increase during winter, suggesting a possible dispersal (or migration?) during summer, presumably to prime breeding sites.

This site also supported an incredible 450 African Jacana this summer, almost double that of the winter 2001 count of 230. Site compiler, Joe Grosel, said that there are extensive *Nymphae* (water lilies) beds at most of the dams which the jacanas are undoubtedly exploiting. High numbers of Black Crake (140) and Painted Snipe (20) were also recorded. Saddlebilled Storks and Crowned Cranes have also been observed at the last two counts.



## Radyn Dam

This karoo farm dam held globally important numbers of South African Shelduck (555) and good numbers of Egyptian Goose (1277) during summer 2002. Past summer counts confirm this to be a favoured site (presumably as a moulting refuge) for these two species in the Western Cape; average summer counts for the shelduck and the goose since 1993, when counts started, number 803 and 747 respectively. A maximum of 1750 shelduck have been recorded (in January 1993) which represents about 4% of the estimated global population. In fact, eight out of the nine counts in which shelduck were recorded produced totals above the 1% threshold, making Radyn a potential IBA site. The dam is a good example of how specific species can dominate particular sites for a short but crucial stage in their annual cycle (e.g. moult), and elevate the conservation importance of the site from a simple farm dam to a prime waterbird moulting or breeding site.

## Deelpan

Situated in the Free State, this ephemeral salt pan held a record 6447 South African Shelduck; this figure represents about 15% of the estimated global population! It also supported significant numbers of Kittlitz's Plover (409) and Little Stint (3714) both figures almost reaching regionally important thresholds. Like Radyn Dam, this site is of conservation importance for several species at certain times of the year, and needs to be closely monitored.

## Gariep Dam

This large state impoundment bordering the Free State and Eastern Cape is an important permanent waterbody for many waterbirds in central South Africa. This summer, the dam was dominated by two species, African Spoonbill (214) and Egyptian Goose (5088), both of which reached globally important thresholds.

## Spitskop Dam

This impoundment, situated in the Northern Cape, is another of the country's waterbird hotspots. The dam regularly supports globally and regionally important numbers of numerous species; this summer they included African Darter (370), African Spoonbill (140),

South African Shelduck (848) and Redknobbed Coot (3005). Overall, the dam regularly supports 10 000+ waterbirds, a figure that makes it one of the most important waterbird sites in South Africa and southern Africa, and a deserved IBA (SA028).

## Varkfontein Pans

A new site, these farm pans near Benoni in Gauteng are known as one of the prime breeding sites for Greyheaded Gull. This summer, 2550 gulls were counted which represents more than double the 1% threshold for the species' estimated global population.

## Elandsvlei (Dickens Pan)

Besides hosting vagrants such as Buffbreasted Sandpiper, Grey Phalarope and Slaty Egret, this farm dam held regionally important numbers of Redknobbed Coot (2600) and Dabchick (190) this past summer. The site has recently featured on the SA Birdnet and its importance and conservation priorities were topics of discussion at a recent workshop organised by the conservation subcommittees of the Pretoria and Witwatersrand Bird Clubs, and attended by bird club members and other interested and affected parties.

## Redhouse and Chatty Salt pans

These two Eastern Cape sites, situated near Port Elizabeth, are part of the Swartkops Estuary IBA (SA096) and together support important numbers of certain species; this summer Kelp Gull (863) surpassed global thresholds, while near-global thresholds were reached for Greater Flamingo (1104). Chatty also supported near-regional thresholds of Greyheaded Gull (467) and Cape Teal (376), and recorded the second highest count of Ruff (702) in the country, Kalkfontein Dam (1240) in the Free State recording the highest.

## Sponsorship news

CWAC has some good news! The Tony & Lisette Lewis Foundation South Africa have agreed to continue funding CWAC for the next year and will provide R70 000 towards the programme. CWAC would like to say a big THANK YOU to the Lewis Foundation for their generous support which will ensure that the programme will continue to meet its planned and future objectives.



## CWAC personality profile

**Caroline Fox** is our feature personality for this issue. Caroline, who has a Higher Diploma in Nature Conservation, is currently a research technician with KZN Wildlife and is based at St Lucia. Her main duties include long-term ecological monitoring of Lake St Lucia and estuaries in KZN, and carrying out intertidal rocky shore surveys along the KZN coast. She is a keen birder and has been a member of the Mtubatuba bird club for the past 10 years.

**ADU:** How did you get started with CWAC and how long have you been counting waterbirds?

**Caroline:** As part of the management plan for Lake St Lucia, waterbird counts are undertaken four times a year by KZN Wildlife and has been ongoing since the 1970s. I have been involved in organising and participating in CWAC since 1991 when the count data were sent off to the IWRB (International Waterfowl & Wetlands Research Bureau, now Wetlands International) for inclusion into the African Waterfowl Census.

**ADU:** How many sites do you count and who assists you?

**Caroline:** The St Lucia lake is counted by myself and my assistant Amos Myeza, together with Don Sykes and Herbet Mthembu (both KZN Wildlife officers), other members of the KZN Wildlife staff

(variety of staff throughout the years) and dedicated members of the Mtubatuba bird club. Amos and I also cover a further 8 sites around the St Lucia lake area. They are: Kudu pan, Mfazana pans (both these two are on the eastern shores of St Lucia), the coastal strip from Cape Vidal to Sodwana, St Lucia sewage works, Lake Teza (near Mtubatuba), Lake Mfutululu and Two Pans (near Monzi) and Mavuya pan (on the Umfolozi flats). We consider these sites important since they are all satellite sites of the lake.

**ADU:** Why do you do it and what keeps you going?

**Caroline:** Since birds are important indicators of the health of a system it is important that we monitor the numbers of birds utilising the system. I am a keen birder and, besides it being part of my work, I enjoy being out on the lake and visiting the various pans. Since the lake is part of the Greater St Lucia Wetland Park World Heritage Site it is important that we monitor the natural functioning of the lake and its fauna and ensure that the breeding bird colonies and bird habitats are not disturbed or degraded by human activities. The fact that increasingly large tracts of this country are being drained and transformed into monoculture means that there is less habitat for waterbirds, and by carrying on with CWAC I believe that my contribution assists in identifying areas of importance to waterbird conservation.

*ADU: What highlights have you had since you started counting?*

**Caroline:** Some of the highlights while carrying out CWAC include spending a few hours counting thousands of waterbirds in the drying up Lake Teza, floating past feeding Greater Flamingos at Lake St Lucia and picking up specials like Pinkthroated Longclaw, juvenile Saddlebilled Storks, African Finfoot and Crab Plover. Of course the other highlight was the declaration of the Greater St Lucia Wetland Park as the first natural World Heritage Site in South Africa and a first for a CWAC site in South Africa.

*ADU: Why would you recommend it to other birders?*

**Caroline:** It would be their way of contributing significantly to the improvement of waterbird knowledge in the country. It is also an excellent way to improve one's bird identification skills and of course you get to visit areas of superb beauty and meet like-minded individuals.

I would like to take this opportunity to thank all the volunteers who have assisted me in the Lake St Lucia counts, especially the ardent members of the Mtubatuba bird club.



## Heronries and colonies

In the previous newsletter (No. 19) I mentioned the initiative to identify and catalogue all active heronries and/or breeding colonies of waterbirds in South Africa and included a heronry/colony record card to get the ball rolling amongst CWACers. The response to this has been fairly good and already numerous cards have been submitted. The project has now been made public and a webpage has been set up on the ADUs website describing the background, framework, objectives and participation guidelines for this initiative. Go to: <http://www.uct.ac.za/depts/stats/adu/heronries.htm>

Please try to keep a lookout for any active heronries or other breeding colonies the next time you go CWACing or during your birding travels around the country. The basic information that we require (if you don't have a heronry card with you) is the **location of the colony** (GPS or map coordinates), **number of species and adults of each species** (if species cannot be identified give an estimate of the total number of adults), **number of nests, prefer-**

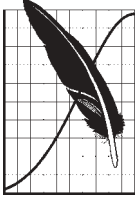
**ably active nests** (estimate for large colonies) and **surrounding land-use or habitat** (in nature reserve, farm dam, etc.). Note that heronry information can be completed on any date, not only the CWAC count dates. The heronry/colony cards and the accompanying NERCS handbook are available to download as pdf files from the webpage but can also be posted to prospective participants.

## Winter 2002 count

A reminder that this count takes place on any day(s) during the month of July with the preferred dates being the middle weekend (**Saturday 13th or Sunday 14th**), or as close to these days as possible.

Enjoy the count and happy CWACing!

*Doug Harebottle  
Project Coordinator*



## Summer 2002 CWAC counts



Entries in *italics* indicate new sites for CWAC.

Sites not listed were either not counted or have been discontinued altogether.

\* denotes the count results that have not yet been received.

The official site codes (centre point coordinates) are included for your quick reference.

MPUMALANGA	Site code	Compiler	Count
Amot Pan	25462946	Woden Odendaal	722
Amot Vlei	25462947	Woden Odendaal	5
Blaauwwater Pan	26173016	Woden Odendaal	81
Blinkpan (Lothair)	26203020	Woden Odendaal	408
Blinkpan Oranje	26032931	Woden Odendaal	1085
Bosmansfontein Pan	26062941	Ken Hattingh	883
Bosmanslaagte Pan	26072942	Ken Hattingh	1010
Bosmanspoort Dam	26052941	Ken Hattingh	260
Breyten Pan	26183000	Woden Odendaal	1149
Coetzerspruit	25552936	Ken Hattingh	17
Coetzerspruit (source of)	26032934	Woden Odendaal	832
Goedehoop Pan 3	26193017	Woden Odendaal	147
Goedehoop Pans 1&2	26203018	Woden Odendaal	339
Goedenhoop Pan	25552928	Ken Hattingh	743
Groot Riet Pan	25572937	Ken Hattingh	67
Hendrina Municipal Dam	26092944	Ken Hattingh	377
Kanhym Pan 1	25502931	Ken Hattingh	1106
Kanhym Pan 2	25512941	Ken Hattingh	346
Kanhym Pan 3	25522932	Ken Hattingh	1328
Kanhym Pan 4	25512933	Ken Hattingh	406
Klein Riet Pan	25562940	Ken Hattingh	173
Kwena Dam	25213022	Lientjie Cohen	616
Lake Banagher (East)	26203022	Woden Odendaal	136
Lake Banagher (Proper)	26213022	Woden Odendaal	434
Lake Banagher (West)	26203021	Woden Odendaal	479
Lake Chrissie 92 IT	26193013	Woden Odendaal	774
Lakenvlei (East)	25353006	David Gaynor	215
Leeuwpan	26352857	Piet van der Westhuizen	1992
Lemoenfontein Dam 1	25482940	Ken Hattingh	663
Lemoenfontein Dam 2	25472939	Ken Hattingh	25
Lemoenfontein Dam 3	25472941	Ken Hattingh	40
Lemoenfontein Pan	25472938	Woden Odendaal	1505
Loskop Dam	25262919	Lientjie Cohen	801
Lydenburg Fisheries	25073028	Lientjie Cohen	38
Masibekela Wetlands	25533150	Lientjie Cohen	416
Middelburg Dam	25482933	Kassie Kasselmann	182
Mooiplaats Pan	26173007	Woden Odendaal	78
Nooitgedacht Pan	25442947	Woden Odendaal	466
Ogies Pans	26052904	Andy McLetchie	257
Oranje Pan	26012932	Woden Odendaal	445
Oranjevallei Pan	26122945	Ken Hattingh	402
Rustig Dam	25462936	Woden Odendaal	98
Rustig North Pan	25442936	Woden Odendaal	805
Rustig Pan	25452936	Woden Odendaal	1003
Simonsdal Pan	26173009	Woden Odendaal	328
TNC Proposed Bird Sanctuary	26082922	Ken Hattingh	243
Witbank Dam	25532918	Woden Odendaal	1963
<b>TOTAL</b>			<b>25888</b>

KWAZULU-NATAL	Site code	Compiler	Count
Albert Falls Dam	29263024	Shirley Bennett	211
Banzi Pan (Ndumo)	26523217	Robert Kyle	23
Blood River Vlei	27503035	Duncan Mckenzie	1020
Dieu Donne Farm Dam	29292941	John Crowson	252
Durban Bayhead	29533101	Roy Cowgill	530
Goedetrouw Dam	28463124	Duncan Pritchard	188
Harding Dam	30342952	Neville Bentley	144
Hlatikulu Valley	29152941	Brent Coverdale	*
Klipfontein Bird Sanctuary	27483048	Duncan Mckenzie	506
Kosi Bay Lake System	26583250	Robert Kyle	1031
Kudu Pan	28273246	Caroline Fox	35
Lake Cubhu	28513158	Pete Outhwaite	*
Lake Eteza	28213209	Caroline Fox	161
Lake Mfutululu	28253215	Caroline Fox	16
Lake Mzingazi	28453207	Pete Outhwaite	*
Lake Nhlabane	28383217	Pete Outhwaite	*
Lake Nsezi	28443159	Pete Outhwaite	*
Lake St Lucia	28043227	Caroline Fox	1770
<i>Lenjane Wetland</i>		Darryl Baxter	55
Malandeni Sewage Works	28342948	Ken Gordon	2077
Mavuya Pan	28303212	Caroline Fox	185
Mbozambo Waste Water Lagoon	29173117	Iain Kerr	503
Mfazana Pans	28153228	Caroline Fox	51
Midmar Dam (Reserve only)	29313011	Shirley Bennett	190
Mlalazi River Estuary	28573147	Caroline Fox	110
Mtwalume River Estuary	30283038	Neville Bentley	337
Neshe Pan	27393224	Lynne Booth	217
Nhlonhlela Pan	27363212	Lynne Booth	156
Northern Treatment Works	29483100	Richard Boon	915
Nseleni River	28403200	Pete Outhwaite	*
Nsumu Pan	27403219	Lynne Booth	344
Nyamithi Pan (Ndumo)	26533218	Robert Kyle	264
Pongolapoort Dam	27253158	Lynne Booth	856
Reichenau Mission Dam	29482938	Stuart McLean	342
Richards Bay Wetlands	28493202	Andrew Sutherland	3748
Scafell Farm Dam	29422926	John Crowson	20
Shokwe Pan (Ndumo)	26533213	Robert Kyle	75
St Lucia Sewage Works	28233225	Caroline Fox	30
Thulazihleka Pan	28473203	Andrew Sutherland	711
Tshanetshe Pan	27403226	Lynne Booth	10
Two Pans	28263217	Caroline Fox	33
Umgeni River Estuary	29493102	Steve Davis	1903
Umvoti River Estuary	29233121	Shirley Jex	3169
Waterford Farm Dams	29512919	John Crowson	498
Watermead Dam	29502935	Stuart McLean	288
Yengweni Pan	27393226	Lynne Booth	241
<b>TOTAL</b>			<b>23215</b>

NORTHERN CAPE	Site code	Compiler	Count
Bosduiwepok Dam	30152445	Jannie Venter	104
Dampoort Dam	28112429	Mark Anderson	371
Danielskuil Dams	28112333	Mark Anderson	0
De Aar Sewage Works	30412402	Francois Taljaard	104
Espagsdrift Vlei	27562444	Mark Anderson	344
Faugh A Ballagh	30522438	Jannie Venter	205
Ganspan A	27562445	Mark Anderson	450
Ganspan B	27542447	Mark Anderson	560
Grootpan	28182335	Mark Anderson	0
Hanskopfontein Pan	28282448	Mark Anderson	0
Holpan/Graspan Pans	28412426	Mark Anderson	0
Hopetown Sewage Works	29422405	Ronelle Visagie	57
Kafferspoort Dam	30552416	Francois Taljaard	0
Kamfers Dam	28402446	Mark Anderson	16609
Klipkolk Farm Dam	26522005	Ben von Wielligh	0
Kraankuils Dam	29522412	Ronelle Visagie	476
Kraankuils Dam Weir	29522413	Ronelle Visagie	453
Kraankuils Dam – Saaidam	29532412	Ronelle Visagie	323
Kriegerspoort Dam	31172433	Jannie Venter	2878
Marrick Pan	28462436	Mark Anderson	0
Nantwich Saltpan	28292446	Mark Anderson	764
Nooitgedacht	29542434	Mark Anderson	190
Orange River Mouth	28381628	Mark Anderson <sup>1</sup>	6455
Orange River: Brandkaros–Hohenfels	28281637	Mark Anderson <sup>1</sup>	47
Orange River: Bridge–Hohenfels	28331633	Mark Anderson <sup>1</sup>	349
Pedro's Kloof Dam	30081806	Enrico Oosthuysen	702
Platfontein Pans	28392437	Mark Anderson	751
Pudu Farm Dam	27482244	Mark Anderson	266
Rooifontein Pan	28482449	Werner Sinclair	407
Rooipan	28222335	Mark Anderson	0
So Ver Myn Dam	28132431	Mark Anderson	937
Soutpan	28262347	Mark Anderson	17
Spitskop Dam	28042433	Mark Anderson	8703
Springbok Sewage Works	29401753	Enrico Oosthuysen	218
Strydenburg Dam	29562341	Ronelle Visagie	0
Vaalharts Weir	28072455	Mark Anderson	526
Vanderkloof Dam (Seekoei River Tributary)	30202500	Jannie Venter	106
Volstruis Pan	28402410	Mark Anderson	0
Wortelfontein Dam	31082408	Francois Taljaard	219
<b>TOTAL</b>			<b>43591</b>

<sup>1</sup> Thanks also to Holger Kolberg, Patrick Lane, Eric Hermann and Dirk Heinrich.

EASTERN CAPE	Site code	Compiler	Count
Bar None Saltpan	33502533	Paul Martin	1828
Bushmans River: Mouth–Ghio Bridge	33402635	Laurie Wood	211
Cape Recife Reclamation Works	34012541	Paul Martin	220
Chatty Saltpans	33512535	Paul Martin	4143
De Hoop Dam	32262424	Judy Caryer	0
Fairview Racecourse	33562523	Paul Martin	385
Gamtoos River (False Mouth)	33582505	Chuck Cook	808
Gamtoos River: Mouth–6km upstream	33582502	Chuck Cook	909
Ghio Pans	33382634	Laurie Wood	4
Great Fish River Estuary	33292707	Tony Tree	966
Kabeljous River Estuary	34002456	Chuck Cook	1822
Kowie River Estuary	33352653	Tony Tree	712
Krom River Mouth	34082450	Chuck Cook	7384
Malangskraal Dam	32442607	Bo Bonnevie	522
Mondplaas Ponds	33572458	Chuck Cook	385
PE Power Station Pans	33522536	Paul Martin	760
Perseverance Vleis	33502532	Paul Martin	236
Redhouse Saltpan	33522533	Paul Martin	4063
Retreat Farm Dam	31562525	Allan Collett	487
Riet River Bay (Three Sisters–Riet Point)	33332701	Tony Tree	3855
Seekoei River Estuary	34052454	Chuck Cook	1035
Umtata Dam	31302842	Sonja Vorster	1497
Nqweba Dam	32132432	Judy Caryer	1464
Zwartkops River Estuary	33522538	Paul Martin	4510
<b>TOTAL</b>			<b>38206</b>

WESTERN CAPE	Site code	Compiler	Count
Berg 1: Mouth & Estuary	32471809	Doug Harebottle	2222
Berg 2: Cerebos Saltpans	32481810	Michael Byrnes	1270
Berg 3: Hotel Mudflats & Estuary	32471811	Keith Harrison	1210
Berg 4: Hotel Saltpans	32481811	Mel Tripp	2094
Berg 5: De Plaat	32481812	Phil Whittington	6326
Berg 6: Kliphoeck Saltpans	32501812	Rob Satchel	1287
Berg 7: Kliphoeck River & Floodplain	32491813	Rob Satchel	1678
Berg 8: Kruispad Floodplain	32521815	Sylvia Ledgard	251
Berg 9: Langrietvlei Floodplain	32521817	Rene Navarro	1000
Berg 10: Kersefontein Floodplain	32531819	Warwick Board	899
Berg 11: Doornfontein Floodplain	32521819	Elsje van der Linde	1216
Berg 12: Melkplaas Floodplain	32511814	Elsje van der Linde	470
Berg 13: Springersbaai Floodplain	32481813	Elsje van der Linde	67
<i>Sub-total Lower Berg River</i>			<i>19990</i>
Beaufort West Bird Sanctuary	32222237	Japie Claassen	409
Bellair Dam	33422035	Andrew Schofield	*
Bitou River	34012323	Brian Denman	679
Botriviervlei	34211906	Mariana Delpont	4354
De Hoop Vlei	34262023	Paul Bothma	2199
De Mond Estuary	34432007	Pieter Albertyn	361
Dick Dent Bird Sanctuary	34061849	Gavin Lamont	101
Droëvlei	33381843	Mariana Delpont	2839
Eerste River Estuary	34051846	Dirk van Driel	486
George Sewage Works	33592227	Frans de Graaff	327
Goukamma River Mouth	34042257	Rhett Hiseman	161
Great Brak River Estuary	34042214	Ian Mileham	304
Groenvlei	34012252	Rhett Hiseman	390
Jakkalsvlei	32051819	Kevin Shaw	9839
Keurbooms River Estuary	34022324	Brian Denman	1569
Klavervlei	34021845	Gavin Lamont	32
Kleinmond River Estuary	34211905	Mariana Delpont	15
Kleinriviersvlei	34251921	Mike Ford	739
Knysna Lagoon	34032302	Joy von Korff	4564
Knysna Sewage Works	34042302	Joy von Korff	316
Langebaan Lagoon	33081804	Les Underhill	28879
Leeu Gamka Dam	32362201	Japie Claassen	606
Lourens River Estuary	34051844	Gordon Scholtz	*
Modder River Mouth	33291818	Mel Tripp	366
Mossel Bay Sewage Works	34072206	Frans de Graaff	285
Mossgas Dams	34112201	Frans de Graaff	148
Nature's Valley (Groot River)	33592332	Joy von Korff	28
Noord Agter Paarl Irrigation Dam	33401858	Yvonne Weiss	412
Noordhoek Dam	32572158	Japie Claassen	395
Olifants River Mouth (South Bank)	31421812	Kevin Shaw	1438
Oudtshoorn Sewage Works	33372214	Ian Mileham	153
Paardevlei Dam	34051849	Gavin Lamont	181
Paarl Bird Sanctuary	33411858	Yvonne Weiss	3830
Seekoegat Dam	33382209	Ian Mileham	191
Raapenberg Bird Sanctuary	33561828	Doug Harebottle	168
Radyn Dam	33181845	Otto Schimdt	2720
Rietvlei Wetland Reserve	33511829	Koos Retief	2937
Rocher Pan	32361818	Kevin Shaw	2316
Rondevlei Nature Reserve	34041830	Dalton Gibbs	1523
Slent Farm Dam	33381849	Judy New	766
Soetendalsvlei	34431958	Marie van Heerden	*
Springfontein Dam	32192238	Japie Claassen	0
Steenbras Dam	34101854	Gavin Lamont	686
Stompdrift Dam	33312237	Ian Mileham	388
Strandfontein Sewage Works	34051831	Dick Barnes	13385
Swartkop se Dam	33061946	Otto Schimdt	562
Theewaterskloof Dam	34021913	Gerry Jooste	3245
Verkeerdevlei	33192052	Otto Schimdt	1288
Verlorenvlei	32201825	Kevin Shaw	2927
Vermont Salt Pan	34251910	Mike Ford	134
Wadrif Saltpan	32131821	Kevin Shaw	7608
Wellington Waste Water Works	33391858	Johan Rousseau	600
Wilderness Lakes - Swartvlei System	34002245	Ian Russell	6290
Wilderness Lakes - Touw System	33592240	Ian Russell	3007
Wildevoël vlei	34081821	Eric Barnes	297
Zandvlei - Lower Estuary	34071828	Brian Herman	431
Zandvlei - Marina da Gama	34061829	Angus Hemp	610
Zandvlei - Upper Estuary	34061828	Brian Herman	902
Zandvlei - Westlake Wetlands	34071827	Brian Herman	103
<b>TOTAL</b>			<b>139479</b>

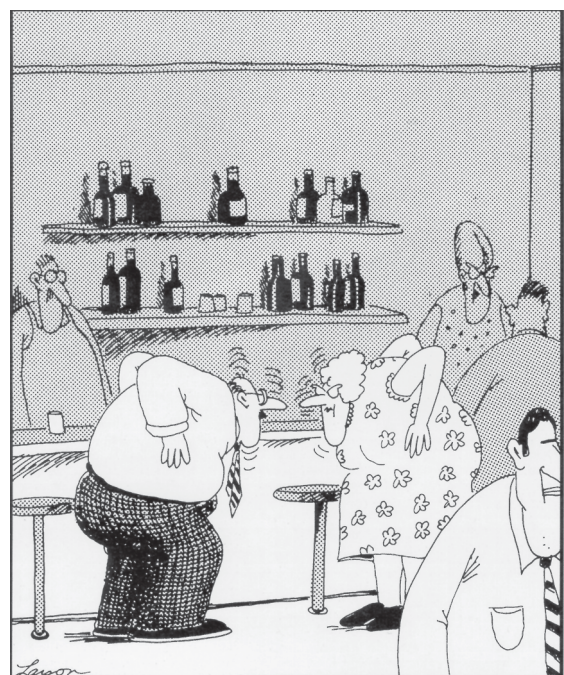
GAUTENG	Site code	Compiler	Count
Anglo Reserve	26182830	Stan Madden	593
Blaauwpan	26072815	Craig Whittington-Jones	143
Bonaero Park Pan	26072816	Albert Froneman	987
Bronkhorstspruit Dam	25542842	Pauline Leinberger	419
Bullfrog Pan	26082819	Anne Mearns	375
Con Joubert Bird Sanctuary	26112741	Henk Alting	296
Cowles Dam (Springs Bird Sanctuary)	26132828	Stan Madden	207
De Pan	26132726	Craig Whittington-Jones	682
Diepsloot Nature Reserve	25572800	Henk Alting	815
Elandsvei 414	25592827	Koos van Dyk	4223
Grootvaly on Blesbok	26162830	Stan Madden	1331
Grootvaly Wetland Reserve	26142829	Stan Madden	326
Korsman Bird Sanctuary	26112818	Andy McLetchie	1857
Lakefield Pan	26112817	Henk Alting	530
Leeupan	26142819	Craig Whittington-Jones	1160
Marievale Bird Sanctuary - Area A	26212830	Stan Madden	1020
Marievale Bird Sanctuary - Area B	26212831	Stan Madden	859
Moorivier Loop 1 (Abe Bailey NR)	26192720	Craig Whittington-Jones	631
Moorivier Loop 2 (Abe Bailey NR)	26212716	Craig Whittington-Jones	334
Parkhaven Pan - North	26082816	Henk Alting	201
Parkhaven Pan - South	26092816	Henk Alting	208
Rietspruit (Rooikraal)	26202817	Andy McLetchie	1160
Rietvei & Marais Dams	25532817	Rihann Geyser	*
Rolfe's Pan	26102813	Koos van Dyk	180
Rondebult Bird Sanctuary	26182812	Andy McLetchie	189
Roodeplaat Dam	25382821	Pauline Leinberger	754
Rooiwal Sewage Works	25342814	Andre van der Walt	1084
Stan Madden Bird Sanctuary	26242828	Stan Madden	1029
Steward's Pan	26122817	Anne Mearns	221
Varkfontein Pans	26032822	Anne Mearns	2951
<b>TOTAL</b>			<b>24765</b>

FREE STATE	Site code	Compiler	Count
Allemandskraal Dam	28182712	Brian Colahan	7055
Benfontein Dam	28502450	Mark Anderson	0
Benfontein Pan	28492449	Mark Anderson	0
Bloemhof Dam	27412540	Stephan Els	1138
Bloemspruit Sewage	29072616	Herman Kleynhans	691
Maturation Ponds			
Deelpan	29102545	Brian Colahan	10920
Donkerpoort Farm Dam	29172629	Stephanie Gerber	245
Erfenis Dam	28342650	Brian Colahan	4629
Gariep Dam (East)	30382550	Brian Colahan	3548
Gariep Dam (West)	30372537	H.L. Bosman	2560
Kalkfontein Dam	29322515	Brian Colahan	7927
Knellpoort Dam	29462653	Dave Hayer	474
Koppies Dam	27152741	V. Brink	412
Krugersdrift Dam	28522600	Brian Colahan	4076
Leeupan	29082541	Brian Colahan	681
Moutloasi Setlogelo Dam	29182651	Jeremy Jones	287
Rietpan	28402618	Brian Colahan	1
Rusfontein Dam	29182637	Brian Colahan	1748
Samenwerking Farm Dam	30042639	Schalk Burger	203
Seekoeivei	27352935	G. Wandrag	1164
Skop Pan	28462606	Stephan vd Walt	581
Sterkfontein Dam	28262901	M. Roots	255
Sunnyside Pan	28392608	Brian Colahan	1442
Welbedacht Dam	29522653	Brian Colahan	365
<b>TOTAL</b>			<b>50402</b>

<b>TOTAL SOUTH AFRICA</b>			<b>362736</b>
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LIMPOPO	Site code	Compiler	Count
Den Staat Irrigation Dams	29162213	Joe Grosel	4023
Doornbult Farm Dam	23472927	Joe Grosel	204
Doordraai Dam	24152845	Karen Steenkamp	*
Kalkfontein Irrigation Dams	23372923	Joe Grosel	406
Naboomspruit Sewage Works	28432431	Saartjie Kidson	331
Namakgale Sewage Works	23573102	John Swards	359
Nylsvley Nature Reserve	24392841	Koos van Dyk	1867
Olifants River (Olifants River North Shareblock)	24103100	John Swards	76
Pietersburg Bird Sanctuary	23512927	Conrad van Tonder	162
PMC wetlands	24013110	John Swards	496
Rondepan Farm Dams	23472924	Joe Grosel	628
Rooibosrand Dam (KNP)	23153110	John Swards	68
Sterkloop Wetlands	24362924	Joe Grosel	884
Turfloop Dam	23532946	Joe Grosel	1858
<b>TOTAL</b>			<b>11362</b>

NORTH WEST	Site code	Compiler	Count
Barberspan	26352535	Henk Bouman	4134
Vaalkop Dam	25202728	Koos van Dyk	1694
<b>TOTAL</b>			<b>5828</b>



*When ornithologists are mutually attracted.*