



## 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 23

## December 2003

## Dear CWACers

With 2003's counts completed, a total of 24 official CWAC censuses have taken place since January 1992. Those sites first counted in 1992, and which continue to be counted every year, now have 12 years' worth of data. These sites should start revealing some interesting long-term and seasonal trends and hopefully with appropriate funding an updated CWAC report can be published in the near future. Many thanks to those compilers who have been counting for the past 12 years. We are sincerely grateful for your sustained commitment to the project and hope that you will continue for the next 12 years!

### Winter 2003 count

To date, a total of 356 780 birds have been counted from 299 sites and represents the highest winter count for CWAC; the previous highest count was 331 109 for winter 1999. Thirty sites were not able to be counted this winter while another 29 were dry and therefore registered zero counts. There are 17 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 total of eight new sites was registered with CWAC during the winter count and these have been highlighted in the tables. My thanks to all of you for your continued support and participation during this year.

The drought experienced in the central and northern regions of the country this year could well have influenced waterbird abundance this past winter. Many of the permanent waterbodies were probably supporting larger numbers of waterbirds due to influxes from surrounding seasonal wetlands many of which probably dried out earlier in the season. Receding water-levels were, however, also reported at many of the permanent waterbodies and thus supported increased numbers of shoreline species that would not normally occur at these localities.

### Interesting highlights

#### *Wadrif Saltpan (Western Cape)*

This is a coastal waterbody situated close to Lambert's Bay and forms part of a series of important coastal wetlands on the west coast between the Olifants River Mouth and Langebaan Lagoon. This brackish to saline pan, which was formerly a functional estuary, is seasonal, and usually fills during late winter from the Langvlei River which floods during this period. As the dry, summer season approaches the water levels recede and these changing conditions support a mosaic of species. When conditions are optimal,

populations of eleven species often occur at globally or regionally significant levels, including Blacknecked Grebe, Lesser Flamingo, Greater Flamingo, South African Shelduck, Cape Shoveller, African Black Oystercatcher, Chestnutbanded Plover, Avocet, Cape (Kelp) Gull, Hartlaub's Gull (348 this winter) and Swift Tern (556 this winter). This site is counted quarterly by Kevin Shaw and staff of the Western Cape Nature Conservation Board. A detailed article on this site appears in *Bird Numbers* 11(1), July 2002.

#### *Zandvlei Estuary (Western Cape)*

Situated near Muizenberg on the Cape Peninsula, this is the largest estuary on the False Bay coastline. This site houses a marina (Marina da Gama) and the canalised mouth is controlled by an artificial weir, which is open mainly during spring tides. Redknobbed Coot and Egyptian Goose occur in good numbers both species probably using it as a moulting site, particularly in mid- to late-summer. Caspian Terns, a Red Data species, are regularly recorded and a pair of African Fish Eagles are resident at the estuary. The marina provides good habitat (quiet, sheltered waterways) for Great Crested Grebe and up to 75 birds (0.5% of southern African population) have been counted in the canals, along with various other duck species. The upper part of the estuary is a proclaimed local nature reserve and there are plans to incorporate the rest of the estuary into the Greater Zandvlei Estuary Nature Reserve. Brian Herman is the site compiler and has been involved in coordinating counts since January 1993.

#### *Cape Vidal to Sodwana Bay (KwaZulu-Natal)*

Coordinated by Caroline Fox of KZN Wildlife, this 60-km stretch on the Zululand coast is one of very few beach counts included for CWAC. The site regularly supports good numbers of Whitefronted Plover and this winter 360 birds (~ 6 birds/km) were counted. Although beach or coastal counts will result in lower species diversity, they are nevertheless important in determining densities and occurrence of species using this narrow habitat strip. These include Whitefronted Plover, African Black Oystercatcher, gulls, terns and Palearctic waders such as Sanderling and Ruddy Turnstone, the latter together with the oystercatcher preferring rocky shorelines over sandy beaches. I hope that by including this site in this newsletter it will encourage other 'coastal counters' to identify similar coastal strips and count these regularly.

#### *Blood River Vlei (KwaZulu-Natal)*

This is an important marsh and is the central section of the larger Blood River floodplain which is located close to Vryheid in north-western KwaZulu-Natal. Numbers of Egyptian (629) and Spurwinged Goose (867) indicate that they use this system as moult



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and non-breeding congregatory site. It is also a favoured site for Crowned Cranes and this winter 170 were counted; a single Wattle Crane was also recorded. This winter also saw all four *Ardea* herons (Goliath, Purple, Grey and Blackheaded) counted, including five Goliath Herons. Other notable species which were also counted this winter included Yellowbilled Stork (1), Hottentot Teal (15), African Jacana (15), Lesser Jacana (1) and African Snipe (35). A big thank you to Duncan McKenzie (original site compiler) and AP Kieve (current compiler) and members of the Vryheid Wild Bird Society for covering this important site. Perhaps other sections of the 'vlei' will be able to be incorporated into the counts in the coming years allowing us to gain insight into the spectrum of waterbird usage within the entire wetland system.

#### **Bronkhorstspuit Dam (Gauteng)**

This impoundment is counted by members of the Pretoria Bird Club with Pauline Leinberger as the current coordinator. Although this site has regular disturbance from fisherman and motorboats, the site often supports over 1000 birds, particularly during the summer. This winter water levels were considerably lower favouring the resident waders, with Kittlitz's Plover (155), Threebanded Plover (76), Blacksmith Plover (266) and African Snipe (50) being counted in good numbers. Blackwinged Stilt and Avocet were also present but in smaller numbers. The dam is also home to both Greater and Lesser Flamingo which regularly occur. Areas of deeper, open water supported good numbers of Egyptian Goose (158) which probably use the site as a moulting and winter congregatory site. Up to three Caspian Terns (Red Data species) were also counted.

#### **Vaalbank Farm Dam (Free State)**

This large, farm dam, located near Petrusburg, is counted by Brian Colahan, regional coordinator for the Free State. Counted for the first time in winter 2002, the dam supported an impressive 9677 waterbirds comprising 32 species. This winter 10 300 birds comprising 37 species were recorded including large numbers of Dabchick (1283), Greater Flamingo (1063), South African Shelduck (667), Yellowbilled Duck (375), Redknobbed Coot (4606) and Blackwinged Stilt (1340); counts of Dabchick, Greater Flamingo, South African Shelduck and Blackwinged Stilt all surpassed their 1% sub-regional threshold levels. Other species of interest included Goliath Heron, Greenbacked Heron, Whitebacked Duck, Redbilled Teal, Southern Pochard, Caspian Tern, Whiskered Tern and African Snipe. Although farm dams are primarily created for livestock or irrigation they often provide permanent, viable habitat for waterbirds, especially in regions with regular drought periods. Vaalbank is a prime example of this and highlights the importance of these artificial waterbodies for waterbirds and the role that private landowners can play in their conservation.

#### **Krom River Estuary (Eastern Cape)**

The Krom is considered one of the most important estuaries along the southern coastline for waterbirds and shorebirds. However, run-off into the Krom River has been substantially reduced in recent years due to impacts in the catchment and this is slowly impacting on the estuary. How this will change the composition of the estuarine avifauna will be interesting to determine and this is where CWAC can supply relevant information. Up to 40 species are regularly recorded and this winter good numbers of Little Egret (49), African Spoonbill (21), Whitefronted Plover (96) and Water Dikkop (60) were recorded. A large number of Palearctic waders frequent the estuary during summer with a fair number over-wintering; this winter Grey Plover (31), Greenshank (4), Whimbrel (13) and Common Tern (9) were counted. Two vagrant waders were also recorded: Mongolian Plover and Greater Sand Plover. This site is loyally covered by members of the St Francis Bay bird club under the leadership of Chuck Cook.

#### **New RO in NE Mpumalanga**

Lientjie Cohen, who took up the role of Regional Organiser for north-eastern Mpumalanga a few years ago, has had to step down but her role will be filled by Anton Linström. Like Lientjie, Anton is based at the Mpumalanga Parks Board offices in Lydenburg, and

is employed as a wetland ecologist for the province. I would like to thank Anton for accepting this new challenge and warmly welcome him to the CWAC network. I am confident that he will bring a wealth of knowledge and experience with him to this regional portfolio which sees him coordinating counts and promoting CWAC in the Lydenburg, Pilgrim's Rest and Nelspruit districts. My thanks go to Lientjie for her support and commitment to the project which ensured that counts in these districts were always coordinated and submitted efficiently and timeously. Anyone who would like to get involved with CWAC in this part of Mpumalanga should contact Anton at tel. (013) 235-2395 or email [alinstrom@lantic.net](mailto:alinstrom@lantic.net)

#### **Coverage expands in southern KZN**

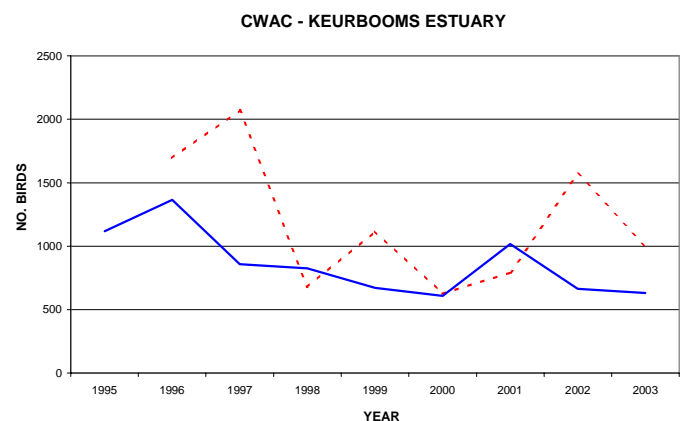
Richard Dobson of the Hibiscus Natural History Museum, together with officials from KZN Wildlife, have agreed that all 10 estuaries from Ramsgate south to the UmTamvuna River will be registered with CWAC from January 2004. This stems from Richard's recent registration of two new CWAC sites on the lower KZN south coast (Mpenjati Estuary and San Lameer Estate) prompting him to consider further monitoring at some of the other estuaries in the region. Already, Richard has scouted each site and provided coordinates, size, and the name and contact details of the person responsible for each of the sites. He has also identified Mpenjati as probably the most important estuary in this region as up to 600 Cape (Kelp) Gulls, 500 Swift Terns and 300 Sandwich Terns have been recorded using it as an overnight roost. There are plans to count this estuary on a monthly or quarterly basis. CWAC applauds Richard and KZN Wildlife for this initiative as it will go a long way in providing much needed data for estuarine wetland birds not only in KwaZulu-Natal but also South Africa.

#### **Concern for Keurboom Estuary**

Brian Denman, coordinator and compiler for counts at this site in Plettenberg Bay, recently contacted me as he had noticed an apparent decline in waterbird numbers at the estuary over the past nine years. After examining the data more closely he sent through a graph (see below) showing the downward trend for both the summer (dotted line) and winter (solid line) counts.

Brian mentions that the number of terns, which usually account for a large proportion of the count, were virtually absent from the estuary during both summer and winter counts in 2003. He is unable to account for the overall decline in numbers, and in particular terns, as water-level fluctuations are negligible and vary due only to tidal influence. The only possibility could be a change in food abundance and diversity and Brian is currently investigating this together with local nature conservation and town council officials.

It is promising to see CWACers looking at their own data and raising any issues or concerns with the ADU and other authorities. Ultimately, this is what CWAC aims to do and I would encourage other compilers to perhaps start looking at their data and writing short reports for the CWAC newsletter, local press and/or bird club newsletters. Only by providing results can we (a) alert the authorities to any possible threats to our wetland systems and/or (b) highlight their importance as waterbird conservation sites.



## CWAC personality profile

This issue we feature Joe Grosel, CWAC Regional Organiser for central and northern Limpopo Province. He is head of the Environmental Services Division of the Environmental Business Unit of Polokwane and works as an ecologist in the Capricorn region of the province. His responsibilities include the management of wildlife and ecologically sensitive areas within the district. Joe also runs a private enterprise that conducts specialist eco-safaris (birding, botany, photography, etc.), ecological training and game management consultation. Together with Mr Kobus Venter he re-established the Pietersburg (Polokwane) Bird Club in 1999 and currently serves as special advisor to the club.

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

**Joe:** About four years ago there was a significant gap in CWAC data for the Limpopo Province with only one or two sites being monitored. After being involved in the BIRP project for a few years Doug convinced me to get CWACing with another project.

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

**Joe:** I count ten sites to the north and east of Polokwane, ably and enthusiastically assisted by members of the Polokwane Club (Birdlife Polokwane). CWAC has become a very important bi-annual outing for the club.

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

**Joe:** I do it not just because its a worthwhile data collecting exercise but also because its an ideal way of getting local bird enthusiasts in the field doing what they enjoy whilst at the same time contributing to avian research. Seeing the enjoyment and sense of purpose it brings to all the helpers and less experienced birders who come along is greatly rewarding.

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

**Joe:** The greatest highlight for me must surely be the discovery and inclusion as a CWAC site of the Den Staat farm dams near Pontdrif on the Limpopo River. This area probably rates as one of the most diverse and prolific CWAC sites in the country. Large seasonal concentrations of special birds including Great White Pelican, African Fish Eagle, African Jacana, Goliath Heron and most of the duck species in a restricted area is spectacular and unparalleled.

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

**Joe:** It's a "sincere excuse" to get out to some wonderful spots and to do some constructive, enjoyable and rewarding wetland birding.

## Heronries and colonies

Please don't forget to keep a lookout for any heronries and/or breeding colonies of waterbirds during this summer's CWAC or during your birding travels. Little is known about these 'waterbird breeding factories' and by collecting information such as which species are breeding, an estimate or count of the number of active nests for each species, the number of adult birds for each species, type of habitat and land use we can start building a better picture of the distribution and conservation status of these sites. For further infor-

mation and instructions on how to download the heronry card and NERCS handbook please go to: <http://www.uct.ac.za/depts/stats/adu/heronries.htm>

Last year I brought to your attention a waterbird colour-ringing project that the ADU had started in the southwestern Cape. This project aims to look at juvenile dispersal and movement patterns, and breeding site fidelity. Now in its second year, young Sacred Ibis, Cattle Egret, African Spoonbill, Grey Heron, Blackheaded Heron and Purple Heron will again be colour-ringed at Rondevlei Nature Reserve, Paarl Bird Sanctuary and Robben Island and their movements monitored. Please visit [http://www.uct.ac.za/depts/stats/adu/colony\\_colring.htm](http://www.uct.ac.za/depts/stats/adu/colony_colring.htm) for further details about the project, see photographs from each of the three study sites and how you can get involved as a RingWatcher!

## New CWAC Coordinator

This will be my last official newsletter as the CWAC coordinator. As from January 2004 I will be taking up a new post within the ADU coordinating waterbird ringing programmes around Africa. This post forms part of a contract between the ADU and the African-Eurasian Waterbird Agreement (AEWA) which is an agreement under the Bonn Convention (Convention on the Conservation of Migratory Species) to which South Africa is a signatory. This project aims to expand our knowledge of the movements and migration patterns of migratory waterbirds in Africa through the implementation of waterbird ringing programmes around Africa, and will be both species and site based.

I will, however, not be leaving CWAC completely but will play a more managerial role, overseeing the day-to-day running of the project. The new coordinator will hopefully be appointed early next year. Until then, please continue to direct all CWAC enquiries to me. I will remain as the Southern African Regional Coordinator for the African Waterbird Census (AfWC) and will be keeping all of you up to date regarding developments within this programme.

I have thoroughly enjoyed coordinating CWAC for the past five years and have certainly learned much about South Africa's waterbirds and will take this knowledge with me into my new post. I have also appreciated meeting many of you, and your continued support and participation have definitely contributed to the growth and success of the project. It is my hope that you will continue 'CWACing' for the next five years, as your skills, passion and involvement are necessary to ensure the sustainability of CWAC into the future. We now have a substantial national waterbird database set up and I am confident that, together with improved funding, this information will serve to contribute to the long-term conservation of South Africa's waterbirds and wetlands. Keep up your good work and continue submitting those census forms!

## Summer 2004 count

A reminder that this count takes place on any day(s) from mid-January to mid-February with the preferred dates being the last weekend (**Saturday 24th or Sunday 25th**) in January, or as close to these days as possible. Enjoy the count!

I wish all of you a happy Christmas, joyous New Year and a year filled with many exciting CWACs.

Doug Harebottle  
Project Coordinator



## Winter 2003 CWAC counts



Entries in *italics* indicate new sites or new compilers for CWAC.

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

Sites are listed in descending order of abundance per province.

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

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

GAUTENG	Site code	Compiler	Count
Marievale Bird Sanctuary	26212830	Stan Madden	5135
Korsman Bird Sanctuary	26112818	Andy McLetchie	3586
Roodeplaat Dam	25382821	Craig Whittington-Jones	3468
Steward's Pan	26122817	Craig Whittington-Jones	2441
Rooiwal Sewage Works	25342814	Andre van der Walt	2311
Leeupan	26142819	Craig Whittington-Jones	1334
<i>Bon Accord Dam</i>	25372811	Sean West	1296
Bronkhorstspruit Dam	25542842	Pauline Leinberger	1174
Rietmei & Marais Dams	25532817	Craig Whittington-Jones	1158
Diepsloot Nature Reserve	25572800	Henk Alting	1028
Stan Madden Bird Sanctuary	26242828	Stan Madden	961
Anglo Reserve	26182830	Stan Madden	778
Moorivier Loop 1 (Abe Bailey NR)	26192720	Craig Whittington-Jones	702
Grootvaly on Blesbok	26162830	Stan Madden	667
Bonaero Park Pan	26072816	Andy McLetchie	635
Apex Pan	26132820	Craig Whittington-Jones	611
Rolf's Pan	26102813	Koos van Dyk	443
Moorivier Loop 3 (Abe Bailey NR)	26212715	Craig Whittington-Jones	372
Cowles Dam (Springs Bird Sanctuary)	26132828	Stan Madden	245
Blaauwpan	26072816	Craig Whittington-Jones	212
Rietspruit (Rooikraal)	26202817	Andy McLetchie	140
Con Joubert Bird Sanctuary	26112741	Henk Alting	128
Moorivier Loop 2 (Abe Bailey NR)	26212716	Craig Whittington-Jones	120
Grootvaly Wetland Reserve	26142829	Stan Madden	119
Rondebult Bird Sanctuary	26182812	Andy McLetchie	90
Sandpan	26072819	Craig Whittington-Jones	77
Parkhaven Pan - South	26092816	Henk Alting	48
Parkhaven Pan - North	26082816	Henk Alting	8
Lakefield Pan	26112817	Henk Alting	4
De Pan	26132726	Craig Whittington-Jones	0
Elandswei 414	25592827	Koos van Dyk	0
Bullfrog Pan	26082819	Anne Mearns	*
Groenfontein Pan	25522852	Andre Marx	*
Varkfontein Pans	26032822	Anne Mearns	*
<b>TOTAL</b>			<b>29291</b>

LIMPOPO PROVINCE	Site code	Compiler	Count
Den Staat Irrigation Dams	29162213	Joe Grosel	2609
Turfloop Dam	23532946	Joe Grosel	1644
PMC wetlands	24013110	John Swards	1040
<i>Deloskop Farm Dam</i>	23312919	Joe Grosel	817
Naboomspruit Sewage Works	28432431	<i>Ellie van Rhyn</i>	308
Rondepan Farm Dams	23472924	Joe Grosel	251
Namakgale Sewage Works	23573102	John Swards	237
Rooibosrant Dam (KNP)	23153110	John Swards	132
Kalkfontein Irrigation Dams	23372923	Joe Grosel	119
Sterkloop Wetlands	24362924	Joe Grosel	105
Polokwane NR - Retention Dams	23522930	Joe Grosel	65
Nylsvey Nature Reserve	24392841	Koos van Dyk	50
Doornbult Farm Dam	23472927	Joe Grosel	29
Pietersburg Bird Sanctuary	23512927	Conrad van Tonder	*
<b>TOTAL</b>			<b>7406</b>

NORTH WEST	Site code	Compiler	Count
Barberspan	26352535	Sampie vd Merwe	17621
Vaalkop Dam	25202728	Koos van Dyk	1793
Leeupan	26322536	Sampie van der Merwe	681
<b>TOTAL</b>			<b>20095</b>

MPUMALANGA	Site code	Compiler	Count
Amot Pan	25462946	Jan de Vries	2872
Leeuwpans	26352857	Piet van der Westhuizen	2512
Grootpan	25552954	Hannes Hoffman	1571
Hendrina Municipal Dam	26092944	Ken Hattingh	1262
Kanhym Pan 3	25522932	Ken Hattingh	1172
Otter Pan	25552956	Hannes Hoffman	1162
Oranjevallei Pan	26122945	Ken Hattingh	1139
Loskop Dam	25262919	Lientjie Cohen	1086
Kwena Dam	25213022	Lientjie Cohen	1015
Woestaleen Spruit Dam	25562937	Ken Hattingh	938
Bosmanslaagte Pan	26072942	Ken Hattingh	857
Bosmansfontein Pan	26062941	Ken Hattingh	733
Goedenhoop Pan	25552928	Ken Hattingh	713
Blinkpan (Lothair)	26203030	Frank Rautenbach	643
TNC Proposed Bird Sanctuary	26082922	Ken Hattingh	599
Lake Chrissie 92 IT	26193013	Frank Rautenbach	551
Amot Vlei	25462947	Jan de Vries	393
Lake Banagher (East)	26203022	Frank Rautenbach	373
Lakenvlei (East)	25353006	David Gaynor	288
Breyton Pan	26183000	Frank Rautenbach	285
Masibekela Wetlands	25533150	Lientjie Cohen	279
Goedeheop Pans 1&2	26203018	Frank Rautenbach	237
Lake Banagher (Proper)	26213022	Frank Rautenbach	221
<i>Nooitgedacht Dam</i>	25593004	Lientjie Cohen	209
Ogies Pans	26052904	Andy McLetchie	193
Lemoenfontein Dam 3	25472941	Ken Hattingh	152
Blinkpan (Amot)	25542953	Hannes Hoffman	140
Lemoenfontein Dam 1	25482940	Ken Hattingh	124
Blaauwater Pan	26173016	Frank Rautenbach	106
Swadini Dam	24333048	Lientjie Cohen	105
Lemoenfontein Dam 2	25472939	Ken Hattingh	56
Coetzerspruit	25552936	Ken Hattingh	42
Lydenburg Fisheries	25073028	Lientjie Cohen	42
Lemoenfontein Pan	25472938	Steve Roos	17
Bosmanspoort Dam	26052941	Ken Hattingh	0
Goedeheop Pan 3	26193017	Martin Kerr	0
Kanhym Pan 1	25502931	Ken Hattingh	0
Kanhym Pan 2	25512941	Ken Hattingh	0
Kanhym Pan 4	25512933	Ken Hattingh	0
Klein Riet Pan	25562940	Ken Hattingh	0
Lake Banagher (West)	26203021	Frank Rautenbach	0
Mavella Pan	25542924	Hannes Hoffman	0
Nooitgedacht Pan	25442947	Jan de Vries	0
Rustig North Pan	25442936	Steve Roos	0
Rustig Pan	25452936	Steve Roos	0
Blinkpan Oranje	26032931	Martin Kerr	*
Witbank Dam	25532918	Martin Kerr	*
<b>TOTAL</b>			<b>22087</b>

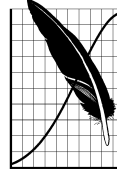
NORTHERN CAPE	Site code	Compiler	Count
Spitskop Dam	28042433	Mark Anderson	14591
Kamfers Dam	28402446	Mark Anderson	8077
Orange River Estuary	28381627	Mark Anderson	5383
Vaalharts Weir	28072455	Mark Anderson	2896
Nooitgedacht	29542434	Mark Anderson	1243
So Ver Myn Dam	28132431	Mark Anderson	1154
Sakrivierspoort Wetlands	31502208	Japie Claassen	1130
Ganspan B	27542447	Mark Anderson	1066
Orange River: Hohenfels - Brandkaros	28341635	Mark Anderson	660
Orange River: Bridge - Hohenfels	28301639	Mark Anderson	460
Dampoort Dam	28112429	Mark Anderson	457
Espagsdrift Vlei	27562444	Mark Anderson	307
Klipkolk Farm Dam	26522005	Ben von Wielligh	245
Kraankuils Dam - Weir	29522413	Ronelle Visagie	229
Bosduiwekop Dam	30152445	Jannie Venter	156
Ganspan A	27562445	Mark Anderson	143
Kriegerspoort Dam	31172433	Lorette Luscombe	40
Nantwich Saltpan	28292446	Mark Anderson	21
Soutpan	28262347	Mark Anderson	12
Danielskuil Dams	28112333	Mark Anderson	0
Grootpan	28182335	Mark Anderson	0
Hanskopfontein Pan	28282448	Mark Anderson	0
Holpan/Graspan Pans	28412426	Mark Anderson	0
Kraankuil Dam - Irrigation Dam	29522412	Ronelle Visagie	0
Kraankuils Dam - Main Dam	29522411	Ronelle Visagie	0
Marrick Pan	28462436	Mark Anderson	0
Pudu Farm Dam	27482244	Mark Anderson	0
Rooipan	28222335	Mark Anderson	0
Strydenburg Pan	29562341	Ronelle Visagie	0
Volstruis Pan	28402410	Mark Anderson	0
<b>TOTAL</b>			<b>38270</b>

EASTERN CAPE	Site code	Compiler	Count
Redhouse Saltpan	33502535	Paul Martin	3246
Chatty Saltpans	33512535	Paul Martin	3002
Zwartkops River Estuary	33522538	Paul Martin	2047
Mondplaas Ponds	33572458	Chuck Cook	1334
Nqweba Dam	32132432	Judy Caryer	1160
Malangskraal Dam	32442607	Bo Bonnievie	929
Gamtoos River (False Mouth)	33582505	Chuck Cook	722
Gamtoos River: Mouth - 6km upstream	33582502	Chuck Cook	721
Krom River Mouth	34082450	Chuck Cook	688
PE Power Station Pans	33522536	Paul Martin	670
Kabeljous River Estuary	34002456	Chuck Cook	662
Bar None Saltpan	33502533	Paul Martin	567
Seekoei River Estuary	34052454	Chuck Cook	539
Retreat Farm Dam	31562525	Alan Collett	500
Umtata Dam	31302842	Sonja Vorster	392
Great Fish River Estuary	33292707	Tony Tree	334
Bushmans River: Mouth - Ghio Bridge	33402635	Laurie Wood	262
Ghio Pans	33382634	Laurie Wood	205
Riet River Bay (Three Sisters-Riet Point)	33332701	Tony Tree	155
Kowie River Estuary	33352653	Tony Tree	100
Perseverance Vleis	33502532	Paul Martin	80
Cape Recife Reclamation Works	34012541	Paul Martin	66
<b>TOTAL</b>			<b>18381</b>

WESTERN CAPE	Site code	Compiler	Count
Botriviervlei	34211906	Mariana Delpont	16608
Langebaan Lagoon	33081804	Doug Harebottle	13853
Lower Berg River			11450
Berg 1: Mouth & Estuary	32471809	Cliff Dorse	1953
Berg 2: Cerebos Saltpans	32481810	Keith Harrison	1695
Berg 3: Hotel Mudflats & Estuary	32471811	Keith Harrison	963
Berg 4: Hotel Saltpans	32481811	Mel Tripp	2001
Berg 5: De Plaat	32481812	Vince Ward	2424
Berg 6: Kliphoek Saltpans	32501812	Rob Satchel	1289
Berg 7: Kliphoek River & Floodplain	32491813	Rob Satchel	210
Berg 8: Kruispad Floodplain	32521815	Sylvia Ledgard	172
Berg 9: Langrietvlei Floodplain	32521817	Rene Navarro	25
Berg 10: Korsefontein Floodplain	32531819	Doug Harebottle	31
Berg 11: Doornfontein Floodplain	32521819	Elsje vd Linde	124
Berg 12: Melkplaas Floodplain	32511814	Elsje vd Linde	267
Berg 13: Springersbaai Floodplain	32481813	Elsje vd Linde	296
Wilderness Lakes - Swartvlei System	34002245	Ian Russell	9306
Strandfontein Sewage Works	34051831	Dick Barnes	7367
Wilderness Lakes - Touw System	33592240	Ian Russell	4260
Voëlmei	34162149	Mick Killeen	2914
Houdebek Dam	33001928	Japie Claassen	2776
Verlorenvlei	32201825	Kevin Shaw	2216
Kleinriviersvlei	34251921	Mike Ford	1954
Knysna Lagoon	34032302	Joy van Korff	1663
Leeu Gamka Dam	32362201	Japie Claassen	1471
Rocklands Dam	33081917	Japie Claassen	1456
Zandvlei - Lower Estuary	34071828	Brian Herman	1401
Paarl Bird Sanctuary	33411858	Yvonne Weiss	1328
Athlone Waste Water Treatment Works	33571831	Dirk van Driel	1250
Wadrif Saltpan	32131821	Kevin Shaw	1080
Edith Stephens Wetland Park - Flood retention Dam	34011831	Doug Harebottle	1075
Olifants River Mouth (South Bank)	31421812	Kevin Shaw	825
Springfontein Dam	32192238	Maria Andela	824
Radyn Dam	33181845	Otto Schimdt	762
Bitou River	34012323	Brian Denman	719
Driefontein Farm Dam	33211846	Otto Schimdt	697
Groenmei Lake	34012252	Johan Huisamen	665
Suikerbosrand/Rietmei Dams	32521928	Japie Claassen	649
Keurboms River Estuary	34022324	Brian Denman	630
Zandvlei - Marina da Gama	34061829	Angus Hemp	625
Zandvlei - Upper Estuary	34061828	Brian Herman	623
Theewaterskloof Dam	34021913	Gerry Jooste	583
Mud River Mouth	33291818	Mel Tripp	573
Slent Farm Dam	33381849	Judy New	540
Stompdrift Dam - Lower Reaches	33312238	Pete Chadwick	511
Beaufort West Sewage Works	32222237	Maria Andela	494

WESTERN CAPE	Site code	Compiler	Count
Beaufort West Sewage Works	32222237	Maria Andela	494
Diep River Estuary - R27 bridge to Woodbridge	33531830	Koos Retief	460
Droëvlei	33381843	Mariana Delpont	436
Noord Agter Paarl Irrigation Dam	33401858	Yvonne Weiss	431
Rietmei Wetland Reserve - South Vlei	33521828	Koos Retief	416
Voëlmei Dam	33221903	John Carter	411
Wildevoëlmei	34081821	Eric Barnes	409
Noordhoek Dam	32572158	Japie Claassen	391
Rietmei Wetland Reserve - North Vlei	33511828	Koos Retief	376
Knysna Sewage Works	34042302	Joy van Korff	361
Rietmei Wetland Reserve - Central Pans	33511829	Koos Retief	347
Stompdrift Dam	33312237	Pete Chadwick	333
Diep River Estuary - Woodbridge to Mouth	33531829	Koos Retief	308
Rietmei Wetland Reserve - Dolphin Beach	33501828	Koos Retief	301
Paardevlei Dam	34051849	Sheila Walker	296
Goukamma River Mouth	34042257	Johan Huisamen	283
Rondevlei Nature Reserve	34041830	Dalton Gibbs	274
Macassar Waste Water Treatment Works	34041845	John Carter	262
Brede River Estuary	34242049	Matthew Prophet	236
Mossel Bay Sewage Works	34072206	Frans de Graaff	204
Eerste River Estuary	34051846	John Carter	199
Kluitjieskraal Wetland	33261910	Mariana Delpont	191
Raapenberg Bird Sanctuary	33561828	Doug Harebottle	170
Mossgas Dams	34112201	Frans de Graaff	151
George Sewage Works	33592227	Frans de Graaff	143
Vermont Salt Pan	34251910	Mike Ford	131
De Mond Estuary	34432007	Pieter Albertyn	124
Edith Stephens Wetland Park - Seasonal vlei	34011832	Doug Harebottle	106
Zandvlei - Westlake Wetlands	34071827	Brian Herman	84
Nature's Valley (Groot River)	33592332	Joy van Korff	70
Klavermei	34021845	Sheila Walker	69
Jakkalsvlei	32051819	Kevin Shaw	56
Rietmei Wetland Reserve - Diep River	33501830	Koos Retief	45
Kleinmond River Estuary	34211905	Mariana Delpont	34
Rietmei Wetland Reserve - Canal	33501831	Koos Retief	20
Hartebeeskuil Dam	34062200	Joy van Korff	0
Rocher Pan	32361818	Kevin Shaw	0
Bellair Dam	33422035	Andrew Schofield	*
<b>TOTAL</b>			<b>101 276</b>

KWAZULU-NATAL	Site code	Compiler	Count
Lake St Lucia	28043227	Caroline Fox	7186
Pongolapoort (Jozini) Dam	27253158	Catherine	4162
Malandeni Sewage Works	28342948	Ken Gordon	3127
Blood River Vlei (Central)	27503035	AP Keeve	2250
Mavuya Pan	28303212	Caroline Fox	1292
Nsumu Pan	27403219	Craig Mulqueeny	970
Dieu Donne Farm Dam	29292941	John Crowson	958
Midmar Dam (Reserve only)	29313011	Shirley Bennett	856
Watermead Dam	29502935	Stuart McLean	826
Kosi Bay Lake System	26583250	Scotty Kyle	809
Reichenau Mission Dam	29482938	Stuart McLean	782
Lake Eteza	28213209	Caroline Fox	771
Waterford Farm Dams	29512919	John Crowson	707
Neshe Pan	27393224	Craig Mulqueeny	670
Umgeni River Estuary	29493102	Steve Davis	649
Northern Treatment Works	29483100	Richard Boon	562
Harding Dam	30342952	Graham Page	478
Sodwana Bay to Cape Vidal	27523236	Caroline Fox	466
Shokwe Pan (Ndumo)	26533213	Catherine	366
Umvoti River Estuary	29233121	Shirley Jex	364
Banzi Pan (Ndumo)	26523217	Catherine	204
Durban Bayhead	29533101	Roy Cowgill	163
St Lucia Sewage Works	28233225	Caroline Fox	159
Lenjane Wetland	27533101	Darryl Baxter	157
Albert Falls Dam	29263024	Shirley Bennett	145
Klipfontein Bird Sanctuary	27483048	Darryl Baxter	109
Nyamithi Pan (Ndumo)	26533218	Catherine	106
Mpernjati Wetland	30563018	Richard Dobson	78
Two Pans	28263217	Caroline Fox	78
Lake Mfutululu	28253215	Caroline Fox	75
Mfolozi Estuary	28243225	Caroline Fox	72
San Lameer Estate	30523020	Richard Dobson	61
Mfazana Pans	28153228	Caroline Fox	40
Mhlazi Pan	27363238	Craig Mulqueeny	19
Mlalazi River Estuary	28573147	Callum Beattie	18
KuMzingwane Pan	27033247	Caroline Fox	16
Yengweni Pan	27393226	Craig Mulqueeny	16
Ndlebeni Pan	27423237	Craig Mulqueeny	12
Kudu Pan	28273246	Caroline Fox	10
KuShengeza Pan	27023247	Caroline Fox	7
Tshanetshe Pan	27403226	Craig Mulqueeny	4
Mfula Pan	27373233	Craig Mulqueeny	0
Nhlonhlela Pan	27363212	Craig Mulqueeny	0
Mbozambo Waste Water Lagoor	29173117	Iain Kerr	*
Mtwalume River Estuary	30283038	Neville Bentley	*
Musi Pan	27243237	Alistair Kilpin	*
Nseleni River	28403200	Andrew Sutherland	*
Richards Bay Wetlands	28493202	Andrew Sutherland	*
Thulazihleka Pan	28473203	Andrew Sutherland	*
Vasi Pan	27123242	Andrew Sutherland	*
<b>TOTAL</b>			<b>29800</b>



FREE STATE	Site code	Compiler	Count
Krugersdrift Dam	28522600	Brian Colahan	25645
Kalkfontein Dam	29322515	Brian Colahan	18219
Vaalbank Farm Dam	29052549	Brian Colahan	10392
Bloemhof Dam	27412540	Vlam Els	8612
Erfenis Dam	28342650	Brian Colahan	7362
Gariep Dam (East)	30382550	Brian Colahan	3367
Koppies Dam	27152741	J.J. Joubert	2405
Rusfontein Dam	29182637	Brian Colahan	1980
Gariep Dam (West)	30372537	H.L. Bosman	1641
Allemanskraal Dam	28182712	Brian Colahan	1470
Welbedacht Dam	29522653	Brian Colahan	1206
Knellpoort Dam - Upper reaches	29452650	D. Hayter	1080
Knellpoort Dam	29462653	D. Hayter	1052
Danielskuil Pan	29022554	Brian Colahan	1032
Donkerpoort Farm Dam 1	29172629	Stephanie Gerber	820
Witpan	27132653	Gert Claassen	662
Leeukop Farm Dam	29212623	Ivan van Rooyen	650
Samenwerking Farm Dam	30042639	Brian Colahan	588
Seekoeiwei	27352935	G. Wandrag	467
Deelpan	29102545	Brian Colahan	440
Bloemspruit Sewage Maturation Ponds	29072616	Herman Kleynhans	416
Moutloasi Setlogelo Dam	29182651	Jeremy Jones	251
Hartebeesdraai Farm Dam	28082615	Brian Colahan	127
Benfontein Pan	28492449	Mark Anderson	122
Skop Pan	28462606	Stephan vd Walt	47
Sunnyside Pan	28392608	Brian Colahan	45
Brandmag Farm Dam	29162630	Stephanie Gerber	39
Vendutiekop Farm Dam	29442538	Christiaan de Wit	23
Donkerpoort Farm Dam 2	29162629	Stephanie Gerber	14
Benfontein Dam	28502450	Mark Anderson	0
Leeupan	29082541	Nick van der Walt	*
Rietpan	28402618	Brian Colahan	*
<b>TOTAL</b>			<b>90174</b>

	<b>TOTAL COUNT</b>	<b>356 780</b>
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