

JOINT REPORT of

**Douglas Jones, Matthew Neil, Nick Nesterenko, Sterling Mills
and Reuban Bews**

Unit name and Dundee Force

Case against:

John Doe

Police Reference No: (if applicable)

Case Reference No: 563666

PF Reference No: (if applicable)

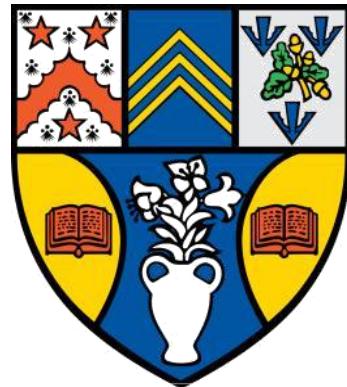


Table of Contents

Executive Summary.....	4
1) Description of Crime	4
1.1) Episodes	4
Episode 1 – 15/06/2004 -27/06/2004	4
Episode 2 – 24/01/2005	4
Episode 3 – 25/01/2005	4
Episode 4 – 02/02/2005	5
Episode 5 – 03/02/2005	5
Episode 6 – 09/02/2005	6
1.2) Overview	6
1.2) Timeline	6
2) Description of Investigation.....	7
2.1) Job Description and Instructions	7
2.2) Description of Recovered / Examined Items	7
2.3) Methodology	7
2.4) Analysis	9
2.4.1) Surface	9
2.4.2) Investigating Directories	9
2.4.3) Investigating Directories - Unallocated	9
2.4.4) Investigating Directories - Deleted	9
2.4.4.1) Investigating Directories - Canon Photos deleted	9
2.4.4.2) Investigating Directories - Connected Devices	10
2.4.5) Investigating Directories - Encrypted Files	10
2.4.6) Investigating Emails	10
2.4.7) Notable Items	10
2.4.7) Further Investigation	12
2.5) Production List and Associated Description	12
3) Conclusions	12
4) Equipment Required for Court Proceedings.....	13
Appendices.....	14
Appendix A – Images.....	14
Episode Carved files:	14

Episode images in .dll file:	26
Episode My Documents:	30
Episode Birdwatching Trip:	35
Episode Files on vol3:	74
Episode Microsoft Clipart:	87
Episode Images Hidden in .gpg file:	98
Episode Image hidden in .exe file:	101
Episode Firefox:	102
Episode Costumes:	103
Episode Inbox:	105
Episode Canon Eos-1ds:	109
Downloaded Web Images:	109
Appendix B – Documents	115
Episode Carved Files:	116
Episode My Documents:	127
Extra PDFs:	135
Appendix C – Browser History	171
Browsing Episode 1	171
Browsing Episode 2	174
Browsing Episode 3	221
Browsing Episode 4	229
Appendix D – Emails	230
Appendix E – Mozilla Firefox downloads	233
Web Download 1	233
Web Download 2	237
Appendix F – Antivirus scan	238
Appendix G – List of Files	238

Executive Summary

The desktop computer of the defendant (Mr. John Doe) was seized and found to contain illicit materials and evidence of bird watching activities following a forensic investigation of the device. The investigation uncovered multiple images of birds and documents with birdwatching related contents on the suspect's disk drive. In addition, multiple email communications were found in relation to the suspect's account, which contained further illicit images and text alluding to the suspect distributing illicit images to at least one person. Further records of internet browsing history relating to bird watching activities and the download of illicit images were found on the disk drive. These items are classified below.

A total of 179 items were recovered from the disk drive seized as part of the computer system from the suspect's residence, see Appendix G: List of Files. A total of 160 of these items were images ranging in severity see appendix A – Images. Additional files included various documents with bird related contents, see Appendix B – Documents.

1) Description of Crime

1.1) Episodes

Episode 1 – 15/06/2004 -27/06/2004

Birdwatching Trip:

Between the 15th and the 27th of June 2004, a total of 32 images (See appendix A: Episode – Birdwatching Trip) were taken with a Canon Powershot camera. These photos appear to show the events of a group conducting a bird watching trip. Many of the images only display a group of people outdoors, however the remaining photos either contain birds or bird related content. One of these images displays the interior of a building with a bird poster on the wall. Further images show unknown devices, which in later images are seen being attached to birds. Further images display bird chicks both in and out of their nests.

Episode 2 – 24/01/2005

Web Browsing:

On the 24th of January 2005 between the times 16:28:20 and 16:28:47 the Mozilla Firefox web browser was used to navigate to and download the Thunderbird email client. See Appendix C – Browser History Browsing: Episode 1.

Episode 3 – 25/01/2005

Clip Art:

Between the 6th of February 1998 and the 30th of July 2002, a total of 17 screen clips (See appendix A Images: Episode - Microsoft Clipart) were created. These images were later downloaded onto the seized computer with the Microsoft Office program on the 25th of January 2005.

Episode 4 – 02/02/2005

Web Browsing:

On the 2nd of February 2005 a web browser was accessed under the username johndoe. Between the times 14:11:46 and 16:53:13 multiple webpages were visited, many of which contained bird related text in either the search term or in the websites name and URL. The history can be seen in Appendix C – Browser History: Browsing Episode 2.

Canon Eos-1ds:

On the 29th of January 2003 an image of a bird was taken with a Canon Eos-1ds camera, this image was later downloaded onto the seized computer on the 2nd of February 2005. The image was found in the unallocated space on the disk drive, see Appendix A – Images: Episode - Canon Eos-1ds.

GPG File:

On the 2nd of February 2005 a .gpg folder was created and encrypted with a password. The folder was named Birdpics.gpg, which raised suspicions. Upon investigation it was found that the file contained a total of 5 images of birds, see Appendix A – Images: Images Hidden in .gpg file. The presence of the GPG encryption on this file suggests that it had been locked to conceal and stop any access to its contents.

Episode 5 – 03/02/2005

Web Browsing:

On the 3rd of February 2005 between 12:21:40 and 15:03:54 multiple websites were browsed to with the history being recorded to folders under the account sharing the defendant's name. During this web browsing multiple bird related searches were conducted along with multiple bird related websites being visited, See Appendix C – Browser History: Browsing Episode 3. Additionally, a total of 9 files were downloaded onto the computer. Of these one was the audio file, aggressive_song.wav which was downloaded onto a removable drive that was not present when the computer was seized. Another of these files was ostbk2b2.htm, which was downloaded into the My Documents folder under the username of the suspect, see Appendix B – Documents – Episode My Documents. A further 6 image files were downloaded to various locations under the same user account. The documents were named; babyscot_vyoung.jpg, babyscot_2weeks1.jpg, 177.jpg, birdtrans2.jpg, chicks2.jpg, newbies2.jpg, which can be found in Appendix A – Images: Downloaded Web Images. The final file was another image file named; ready2fledge.jpg, was downloaded from the website, however despite the download being logged under the suspects username the image itself was downloaded to the My Music folder under the username bob. This image is also logged in Appendix A – Images: Downloaded Web Images.

EXE File:

On the 3rd of February 2005 an executable file named FantailFrontView.exe was created. Under inspection the file was found to be a re-named .jpeg file, see Appendix A - Images: Episode - Image Hidden in .exe file. The placement of this file within the WINDOWS file location combined with the image file being re-named to suggest it was a program suggests that the image may have been intentionally concealed.

Document File:

On the 3rd of February 2005 a document was created on the desktop computer and saved in a file directory under the username which shares its name with the suspect. This document was named

Doc1.doc, see Appendix B – Documents: Episode - My Documents. This document contained a single image of a bird.

DLL File:

On the 3rd of February 2005 a .dll file named CrouchingKokaku.dll was created under the system's WINDOWS directory. This file was a concealed zip folder containing 7 bird images, see Appendix A – Images: Episode - Images in .dll file.

Episode 6 – 09/02/2005

Web Browsing:

On the 9th of February 2005 between the times 11:27:00 and 11:27:48, one search was conducted for "bird screensavers" followed by a visit to a website and a file named "birds.zip" being downloaded to the My Documents folder of the user account with the same name as the suspect. See Appendix C – Browser History: Browsing Episode 4 and Appendix E – Mozilla Firefox Downloads – Web Download 2 respectively.

Emails:

On the 9th of February 2005 a total of 4 emails were received by an email account with a name consisting of the suspects first initial and surname. Of these emails all contained either bird images or text relating to birds and birdwatching, see Appendix D - Emails. Three of the emails were from the same email address with one containing text that suggested a two-way transaction of bird images between the account with the suspects name and the sender. The fourth email contained birdwatching tips and appeared to be a newsletter. See Appendix A – Images: Emails for the attached images.

1.2) Overview

The items and events in episodes 1 through 6 are in violation of the 2004 Protection Of Birds Act, Section 1; the possession of materials relating to bird watching. However, further breaches of this act may have occurred. If it is possible to confirm the presence of the defendant in the images taken in episode 1, they may be connected to a violation of Section 2; Manufacturing of materials relating to bird watching. Furthermore, the emails in episode 6 indicate that the defendant has performed a two-way transaction of bird related images with another individual, this is in violation of Section 3; The distribution of materials relating to birdwatching.

1.2) Timeline

- Episode 1 – 15/6/2005 Bird watching tour photos extracted from a canon powershot camera
- Episode 2 – 24/1/2005 Thunderbird email downloaded
- Episode 3 – 25/1/2005 Microsoft Office Clip Art downloaded
- Episode 4 – 2/2/2005 Web searches for birds and encrypted bird file made
- Episode 5 – 3/2/2005 Multiple bird images downloaded and hidden in .dll and .exe files
- Episode 6 – 9/2/2005 Bird.zip downloaded, bird related emails sent from related address

2) Description of Investigation

2.1) Job Description and Instructions

The digital forensics team involved in this report were instructed to conduct an investigation into the defendant (Mr John Doe) by Dr Ian Ferguson of Abertay Universities Forensic Investigation department. As instructed any relevant computer equipment was seized from the defendant, this included one desktop computer. Followed by a forensic investigation to recover any evidence for the court from the device.

2.2) Description of Recovered / Examined Items

The unit which raided the defendant's accommodation seized a desktop computer (windows XP) which is believed to be owned by the defendant. This device was suspected to contain illicit materials and was transferred to secure storage where the Custody Sargent, took possession of the recovered item.

Item ID	Name
E-01	Desktop computer

Following the chain of custody once the computer system was taken into custody by the investigating group, the hard disk drive (HDD) (E-02) was removed from item E-01 for analysis.

Item ID	Name
E-02	Disk drive

2.3) Methodology

Following procedure to ensure that the original evidence remained unaltered, the disk drive (E-02) from the defendant's computer (E-01) underwent a static imaging process. This resulted in the creation of a system image, a copy of the defendant's disk drive (E-02) which could be searched independently of the original drive.

The static imaging process began with the defendant's hard drive (E-02) being removed from the desktop computer (E-01). Following this a specialized device called a write-blocker was used to extract data from the drive (E-02). This device blocks write operations to the drive (E-02), such as access logs which would be altered by connecting to the drive (E-02) through a standard connection. The use of this device ensured that any data held on the original disk drive (E-02) remained unaltered throughout the static imaging process.

Once the connection to the drive was established an MD5 checksum was calculated, followed by a bit-to-bit copy of the disk drive (E-02) was produced, this was an exact digital replica of the defendant's drive. A second checksum (MD5 hash) of the copy was then calculated and compared to the original to ensure the integrity of the copy throughout the investigation.

The md5 hash of the system image was created to assist in preserving the integrity of the image. This hash value allowed for multiple checks to be carried out throughout the investigation to ensure that the image files were unaltered. Additionally, confirming the accuracy and reliability of the image as a valid resource within the investigation. The following hash value was created from the disk image:

d63dd1b8917ca28bac7c955fc3b6cd25

MD5 Hashing is used to authenticate that file(s) are exact replicas of the original. In this analysis it was used to guarantee that the copy, analysis was being carried out on was the same as that of the files held on the Defendants hard drive. MD5 is a hashing process which takes in a list of data and produces a unique hash value from the input. This is a string of numbers and letters which is intended to be unique to the input data.

All further analysis was conducted on the image of the recovered disk drive (E-02), to ensure the original computer system and the information it held was unaltered.

The analysis was conducted using a computer running the ubuntu operating system to further investigate the image extracted from the hard drive. Multiple tools were installed for extracting readily available, hidden, and partially deleted files including images, browsing history and other documents from the system image.

The software used in the investigation included a string(text) searching tool called grep, a physical searching tool called autopsy, and a hashing tool called md5deep.

Once the system image had been created and checked for accuracy a physical search was conducted, primarily using autopsy. This involved searching through the system image directly comparing strings of text within the file to search terms containing text related to the crime.

Further investigation involved mounting the system image via a method known as loop back mounting, allowing the system image to be viewed as a file system. Once the image had been mounted an anti-virus tool called Clam was used to check for any possible malware present within the system image.

Following the scan, a list was made of all files on the system image, with hashes of each file. This list was then compared against a hash list of all files taken from a clean install of the windows XP operating system, the same system as the one present on the disk drive. This comparison was used to remove unnecessary operating system files from the list. This list was then thoroughly searched for possible illicit materials.

Registry files on the system image were examined to uncover any events of external devices being connected to the system and the logs for software being installed. The registry files for the internet browsers were examined to uncover browsing history and downloads. In addition, the registry files for email clients were also searched for bird related activities.

Some investigations required passwords from the suspect, as these could not be retrieved from the suspect it was seen fit to attempt to crack the passwords. The required passwords were cracked using brute force techniques, this involved using an automated system to attempt a large list of possible passwords until a valid one was found.

2.4) Analysis

2.4.1) Surface

Upon examination three user accounts were found on the computer system. The first, "johndoe", shares its name with the name of the suspect. The two additional accounts were named "Jane" and "Bob", and an additional default administrator account was also present on the device. The user account which shares its name with the defendant serves as confirmation that they made use of and likely owned the computer system. Ownership is also suggested by the computer's original position within the suspect's residence.

The antivirus scan found only one piece of malware on the suspect's device. This malware was a trojan horse named Tufik. This virus is only known to install a keylogger onto the computer it infects. A keylogger is a piece of software that records a person's input normally by recording what the user types on their keyboard. Therefore, it is highly unlikely that this piece of malware would have downloaded illicit content, as such it cannot be attributed to the placement of illicit content onto the suspect's computer. See Appendix F – Antivirus scan.

2.4.2) Investigating Directories

The first scans using Autopsy indicated that there were illicit bird pictures on the defendant's computer. Bird images could be openly found in the defendant's documents folders in clear view. See Appendix A – Images: Episode – My Documents.

2.4.3) Investigating Directories - Unallocated

A total of 23 images of birds were discovered in the unallocated space on the disk drive, see Appendix A – Images: Episode – Files on vol3. Data placed in unallocated space does not appear on the normal file system and can require some effort to uncover. As these files had not been deleted the placement of these files suggests that they had been placed intentionally in the hidden unallocated space, potentially to conceal them.

2.4.4) Investigating Directories - Deleted

There were a range of bird images that were extracted from the defendant's desktop that had been deleted, suggesting someone on the computer had gone to some effort to remove these images from their computer. These images were recovered using file carving, where the raw data of the file system was analyzed for the signatures of image file formats, see Appendix A – Images: Episode – Carved Files.

2.4.4.1) Investigating Directories - Canon Photos deleted

Multiple images of birds and bird cages were found to be taken by a canon camera. Most of these photos were found to be in a deleted state, suggesting that they were deleted to conceal evidence. It

can be noted that the canon camera's time was incorrect - it is unclear if this was to throw investigators by tampering or was just misconfigured.

2.4.4.2) Investigating Directories - Connected Devices

USB flash drive was found to have been connected to the defendant's computer on the 9th of February 2005 at 03:10:17. Although the flash drive was not found during the raid of the defendant's house, there is evidence to what may have been contained on the flash drive as a history of the paths and file names are on the defendant's computers logs. Many names of the files have topics related to birds. The user deleted the log file that which contained evidence of the file names in the flash drive.

2.4.5) Investigating Directories - Encrypted Files

Encrypted files were found on the defendant's computer. A notable set of encrypted files was the file birdpics.gpg. See Appendix A – Images: Episode – Images hidden in .gpg file. The file was in the documents folder of the user account suspected to be owned by the defendant. The file was encrypted using GNU Privacy Guard (GPG), a system which uses a password to scramble the data in a file, resulting in an encrypted file which contains unreadable lines of code until unlocked using the password.

The files name suggested its contents to be bird related and as such it was seen fit to crack the file's password. To do this a tool named John The Ripper was utilized to attempt to brute force the password by testing a large list of possible passwords hashes against hashes of the suspects private keys until the correct password was found. The password found was "arran".

Upon gaining access to the file a total of 5 bird images were uncovered. See Appendix A – Episode: Images Hidden in .gpg file. As confirmed by the virus scan mentioned earlier it is unlikely that this file was placed or altered by a piece of malware, suggesting that the file was intentionally placed on the computer and encrypted by the user.

2.4.6) Investigating Emails

The thunderbird email application was found to have been installed onto the computer, which contained a total of 4 emails in the inbox, see Appendix C - Emails. All of the emails were addressed to an email account with the name idoe@example.org, this name heavily suggests that the account was owned by the suspect. The emails discussed bird watching with a total of 6 attached images. One email appeared to be from a newsletter which contained tips for birdwatching. One of the emails provides evidence of a two-way transaction of bird images between the suspect and another's - the email contains text suggesting that an email had previously been sent from the suspect's email address to this other user, which contained bird images.

2.4.7) Notable Items

Within the defendant's computer it was found that some images were hidden in other files. One of which was file listed as a .dll. However, under inspection the file was found contain a total of 7 images of

birds, see Appendix A – Images: Episode – Images in .dll file. An additional 2 images were concealed separately, the first of which was renamed as a .exe file, see Appendix A – Images: Episode – Image hidden in .exe file. The final of these concealed images was renamed as a .wav audio file, which was downloaded to an external drive.

Deleted Images were found to be taken with a Canon PowerShot. Most of the images taken with the camera were deleted suggesting that the defendant could be trying to cover their tracks. The images show other people who could be involved in nefarious actions. Images also include bird houses, bird dungeons and birds. See appendix A – Images: Episode – Birdwatching Trip.

A document was found that has the defendant's name listed as a signature that suggests the defendant was working for someone, but it is not clear in what task the document was referring too. See appendix A- Birdwatching Trip. Image 3E8262AFd01

An image that shows that the photographer was in close proximity to birds is labeled KeaEatingRentalCar.jpg which features a blue vehicle, the title of the image also suggests that it was someone's Rental Car. This picture was modified on the day before the Birdwatching Tour; however, the metadata does not suggest a relation of this image does to the Birdwatching Tour.

An image was found of a group of baby birds and what appears to be a bird egg. Which shows the defendant was in close proximity of recently hatched birds during his time on his Birdwatching Trip. See Appendix A - Birdwatching Trip. Image f0033904.jpg. In addition, the 3 jpg images: babyscot_vyoung.jpg, babyscot_2weeks1.jpg, and 177.jpg also contained eggs. Appendix A – Images: Downloaded Web Images. However, as these 3 were downloaded they are unlikely to be connected to the defendant beyond possession

The metadata of a deleted image shows that was in My Documents folder of the user. My Documents folder contains illicit content and deleting files from that folder could suggest that there was an attempt to conceal evidence. See Appendix A – Episode my documents. Image 67BAEB46d01

There was an image that was not displaying correctly in the tool that was used to extract the files, Autopsy. This suggests that the image was altered purposely or damaged during deletion. See Appendix A – Episode My Documents. Image 978D14DDd01

During browsing sessions two notable events occurred, the first of which was the file Ready2fledge.jpg, see Appendix A – Images: Downloaded Web Images. Which was downloaded into a file directory under the user account named bob, during a browsing session which was logged under the user account

johndoe, see Appendix E – Mozilla Firefox Downloads: Web Download 1. The second of these events were a series of emails which had been received by the defendant's computer. All of the emails received were addressed to an email account bearing the suspect's initials. Some of the emails contained bird images and all had contents relating to birds. One of the emails suggested that image sharing had occurred between the suspect and one other person. For these emails see Appendix D – Emails.

2.4.7) Further Investigation

It was found that on the investigation of the defendant's image of their hard drive that more than one user existed on the machine. The usernames were Administrator, John and Bob. Evidence was gathered that showed Bob's login also had an illicit image of a bird. See Appendix

2.5) Production List and Associated Description

The following is a list showing the items found, with their case numbers, title and description

P01 – Images – All images recovered from the disk found to be connected to the case, Appendix A – Images

P02 – Documents – All recovered documents from the disk suspected to be connected to the case, Appendix B – Documents

P03 – Browser History – The recovered browsing history of the suspect Appendix C – Browser History

P04 – Emails – The emails recovered from the defendant's email client, Appendix D – Emails

P04 – Mozilla Firefox Downloads – The recovered web download logs of the suspect's account, Appendix E – Mozilla Firefox Downloads

P05 – Antivirus Scan – The results of the antivirus scan conducted on the system image, Appendix F – Antivirus scan

P06 – File List – The list of all suspected illicit files found on the suspect's disk, Appendix G – List of Files

3) Conclusions

The defendant had a wide range of bird material ranging from pictures of birds to pictures of bird cages. The user of the computer used different methods to try and conceal their actions such as deleting images, encrypting images, placing images in unallocated disk space, changing the brightness of images and changing file extensions of images. There is also evidence that suggests the defendant had taken their own pictures of birds and bird cages. In addition, web browsers had been used on multiple occasions to access websites and images relating to birdwatching. It was also found that the defendant's computer had connected a flash drive to their computer with indications that more illicit bird images could be found on that device.

4) Equipment Required for Court Proceedings

For court presentation the suspect's desktop computer and connected components will be required.

In addition, if it is required to demonstrate or display the found evidence an additional computer will be required. This computer will require to run on the Linux Ubuntu operating system and will require the following programs installed; autopsy, grep, exif tool, metacam, john the ripper, md5deep, md5sum, gpg, java, antivirus clamav. If it is required to display the firefox browsing history a computer running a windows operating system of 7 or later will be required with the MozillaHistoryView tool downloaded.

A projector compatible with computers and its connecting components will be required for presentation within the court.

Appendices

Appendix A – Images

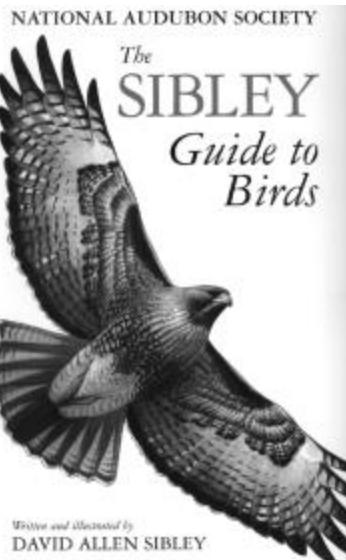
Episode Carved files:



35737-image1.jpg



35738-image0.jpg



35732-image4.jpg

The advertisement is for Chesterton Feed Garden Center, Inc. It features a logo with a sun-like symbol above the text "Chesterton Feed" and "Garden Center, Inc.". Below the text is a black and white illustration of a garden scene with a birdhouse, a bird perched on a branch, and another bird flying. A list of services follows:

- N.W. Indiana's premier garden center
- Patio Gift Shop- Unique & beautiful products for home & garden
- Happy Pet Place complete line of pet foods & pet supplies
- Always the finest variety of wild bird seed & bird feeders

400 Locust Street • Chesterton, IN
www.duneland.com/cfgc.html
Open everyday all year. Call (219) 926-2790

image16.jpg



f0189136.gif

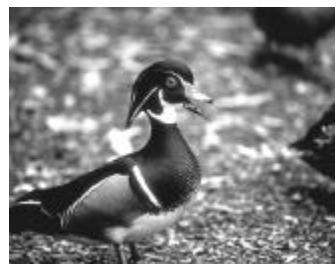


image4.jpg



image26.jpg



f0310480.jpg



image6.jpg



image2.jpg

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image20.jpg



f0056976.jpg



f0056928.jpg

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image21.jpg



image13.jpg



image7.jpg



f0033912.jpg



image14.jpg

An advertisement for Hidden Escape Bed & Breakfast. It features a black and white photograph of a large, rustic-style house with a porch. The text "Escape at... Hidden Escape Bed & Breakfast" is written in a serif font. Below this, it says "An Intimate Getaway in the Country". Underneath, it lists amenities: "A Private Bungalow Deep in the Woods" and "Gazebo • Hot Tub • Sunroom Whirlpool • Living Room • Master Bedroom". A horizontal line separates this from the next section. The text "Birthdays, Anniversaries, Weddings, Honeymoons" and "A Great Getaway - Weekend Packages" follows. Another horizontal line is present. At the bottom, the phone number "219-759-4701", the website "www.hiddenescape.com", and the slogan "A Great Gift Making Time for Each Other" are listed. Logos for MasterCard and VISA are shown, along with the Hidden Escape logo.

image17.jpg



f0056920.jpg



image12.jpg



image1.jpg



f0056944.jpg

United Kingdom

f0006912.gif



f0056912.jpg



f0056936.jpg



f0033928.jpg



image0.jpg

The Prairie Falcon
Birding Guide



image33.jpg



f0056952.jpg



image5.jpg

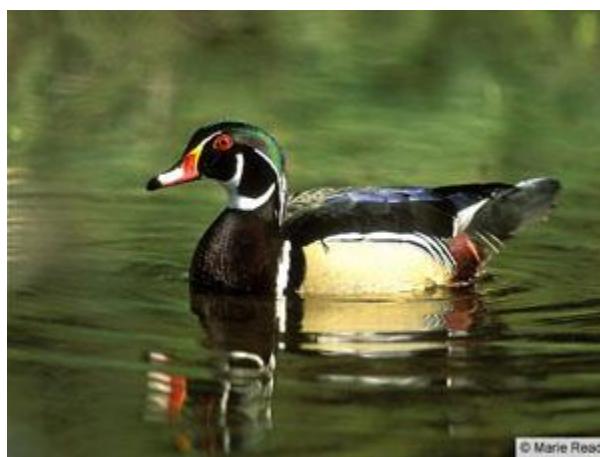


image3.jpg

Episode images in .dll file:



CrouchingKokako.jpg



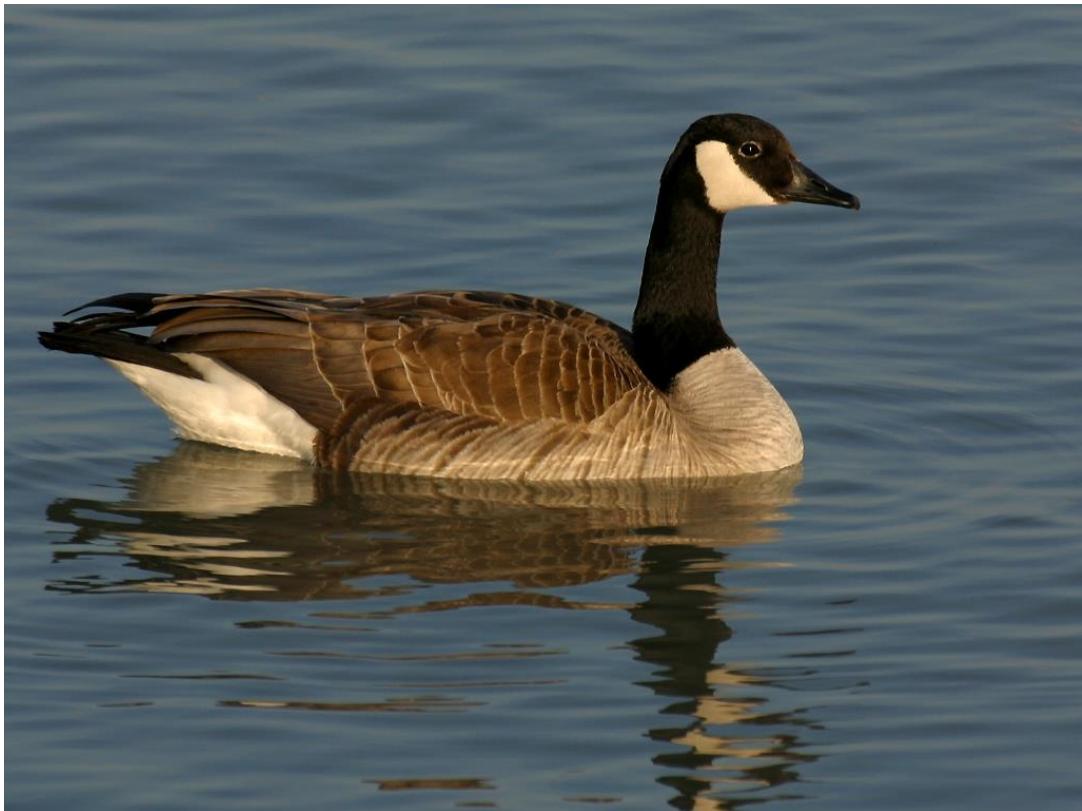
brd_WoodDuck.jpg



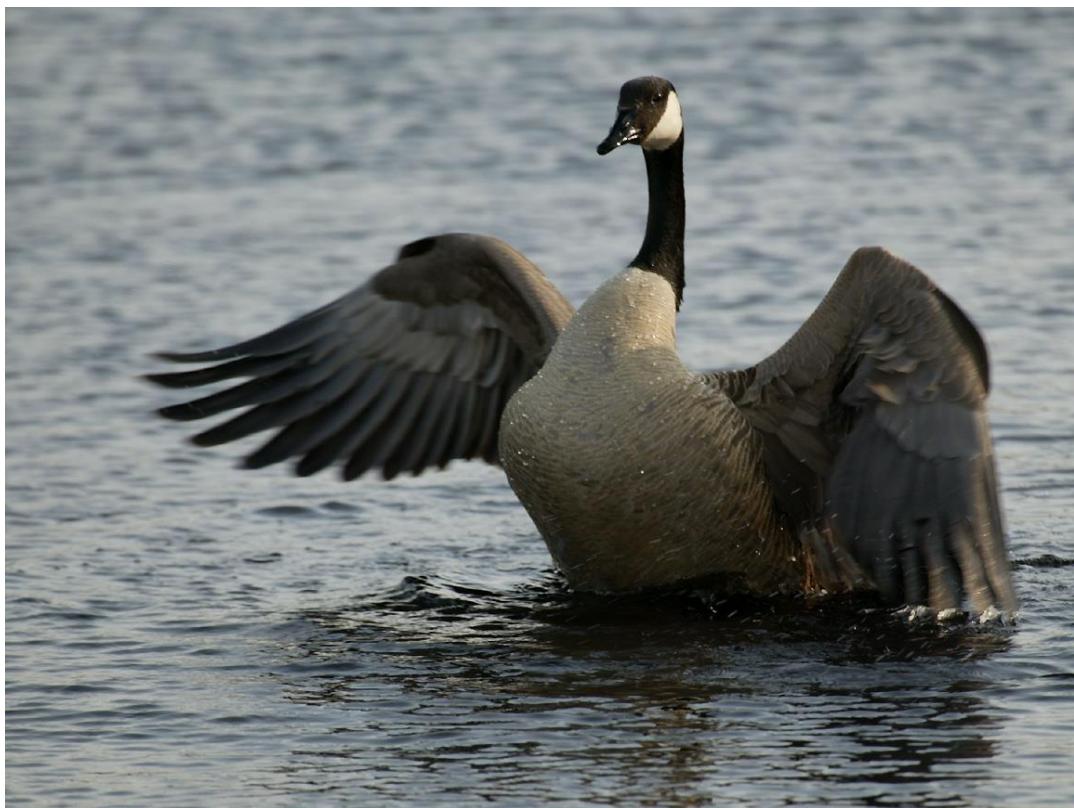
Brolga.jpg



BrushTurkeyPerching.jpg



CanadaGoose.jpg



CanadaGooseWashing.jpg



ChestnutMandibledToucan.jpg

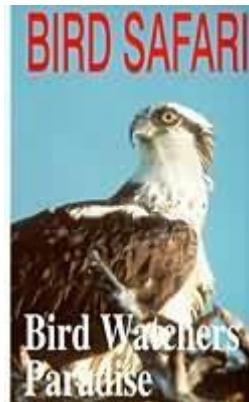
Episode My Documents:



tn_duck_3.jpg



snow_geese.jpg



7107298.jpg

Birding and Birdwatching - Build X +

← → C File | D:\johnDoe.dd\John%20Doe\Export\3035-aa010703a.htm

Apps IP Tutorial - Subnet... Online IP Subnet C... subnet mask - Goo... Watch South Park S... Tom Clancy's Rainb... Slack | Matthew | A... D53cFhxUwAACwhs... Watch cartoons onl...

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Build a Bluebird Nest Box

Easy Box to Make

This bluebird nesting box is a great way to get started making birdhouses. You do not need to miter any edges and the entire project can be completed using one 6 foot length of 1" x 6" lumber.

Since only simple materials and tools are required, this birdhouse is also a wonderful project for Scouts, youth groups, and beginning woodworking classes.

[Click here](#) for drawings of the pieces and dimensions you will need. (A)
[Click here](#) for a close up of the hole. (B)
[Click here](#) for a diagram of the pivot nails. (C)

See the box to the right for [wood](#) and [tool recommendations](#)

Materials needed:
Wood cut to the dimensions shown in A above
Finishing nails
1 eye screw
Wood screws

Directions:

- Cut the wood to the dimensions in [diagram A](#). All of the pieces can be cut from one 6' length of 1" x 6" lumber.
- Cut the front entrance hole as in [diagram B](#). This is an oval shaped hole that is 1 3/8" wide and 2 1/4" long. To begin cutting this hole, mark the dimensions on the front. Then drill one 1 3/8" circle at the top. Repeat at the bottom of the hole, overlapping the drilled holes.
- Drill two small holes near the top of each side for ventilation.
- Drill four small holes on the bottom for drainage.
- Using finishing nails or wood screws, secure one of the sides to the bottom. Then secure the front and back to the same side.
- Slip the 2nd side into place. Secure using two nails, one near the top on each side. These nails will be pivots so

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- [Wood to Make Houses](#)
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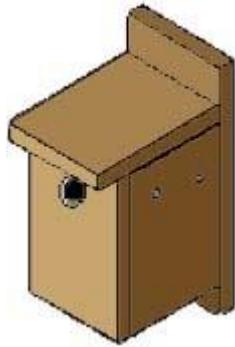
[Nesting box camera](#) As featured in The Mail on Sunday. View bird nest activity on our TV. [www.cambox.co.uk](#)

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Tips for Nest Boxes this spring/summer

If you have old boxes in your garden, clean out any of last years nesting material or any old bits of food that may have been stored in there.

If you are putting up new nest boxes make sure that they are out of the reach of cats and Squirrels.

Check that the box isn't in full sun otherwise young birds may literally bake in the heat.

Experiment with different kinds of bird boxes – the open-fronted “Robin” boxes may even attract Spotted Flycatchers.

Make sure any boxes are at least 15mm in thickness.

Face boxes away from prevailing winds.

Don't put nest boxes too close together in a small area as this will only lead to territorial fights.

Always make sure that there is enough food and fresh water made available close by.

Do not put bird boxes with perches attached – the birds do not need them and it may only invite predators.

Never buy a bird table with a nest box built in, as nesting birds will only come into conflict with feeding ones.

nestboxtips.txt



40m.jpg

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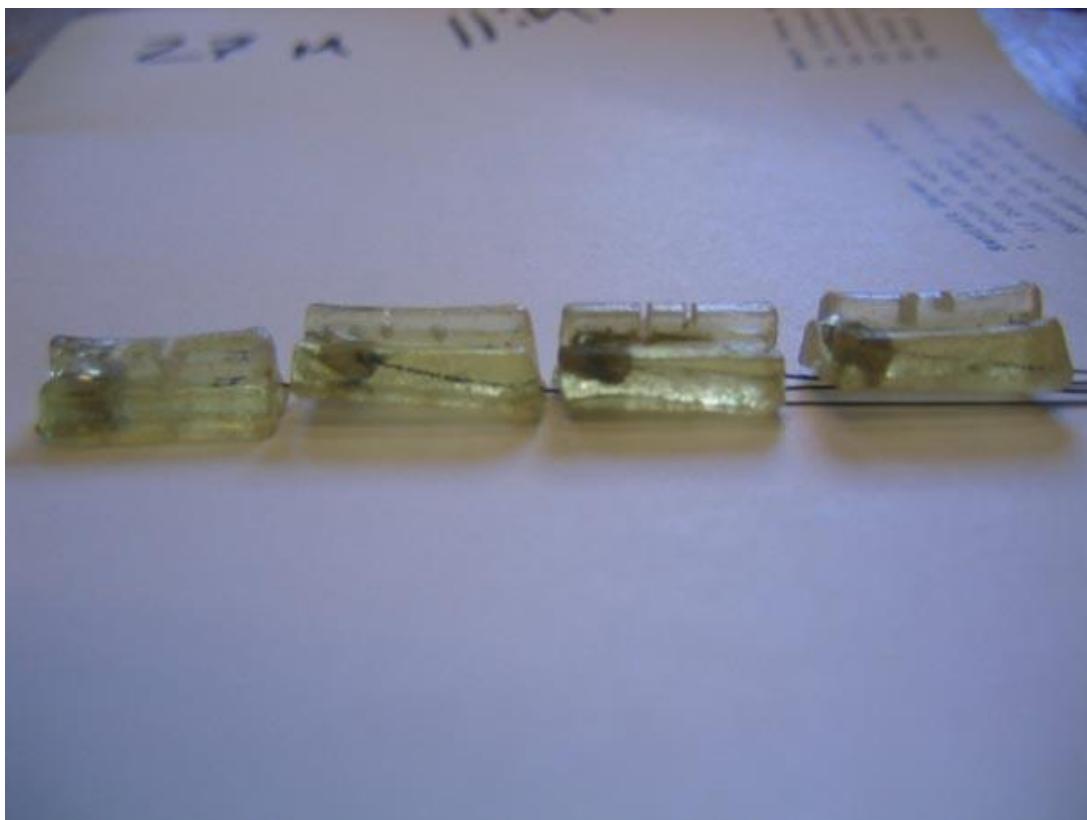
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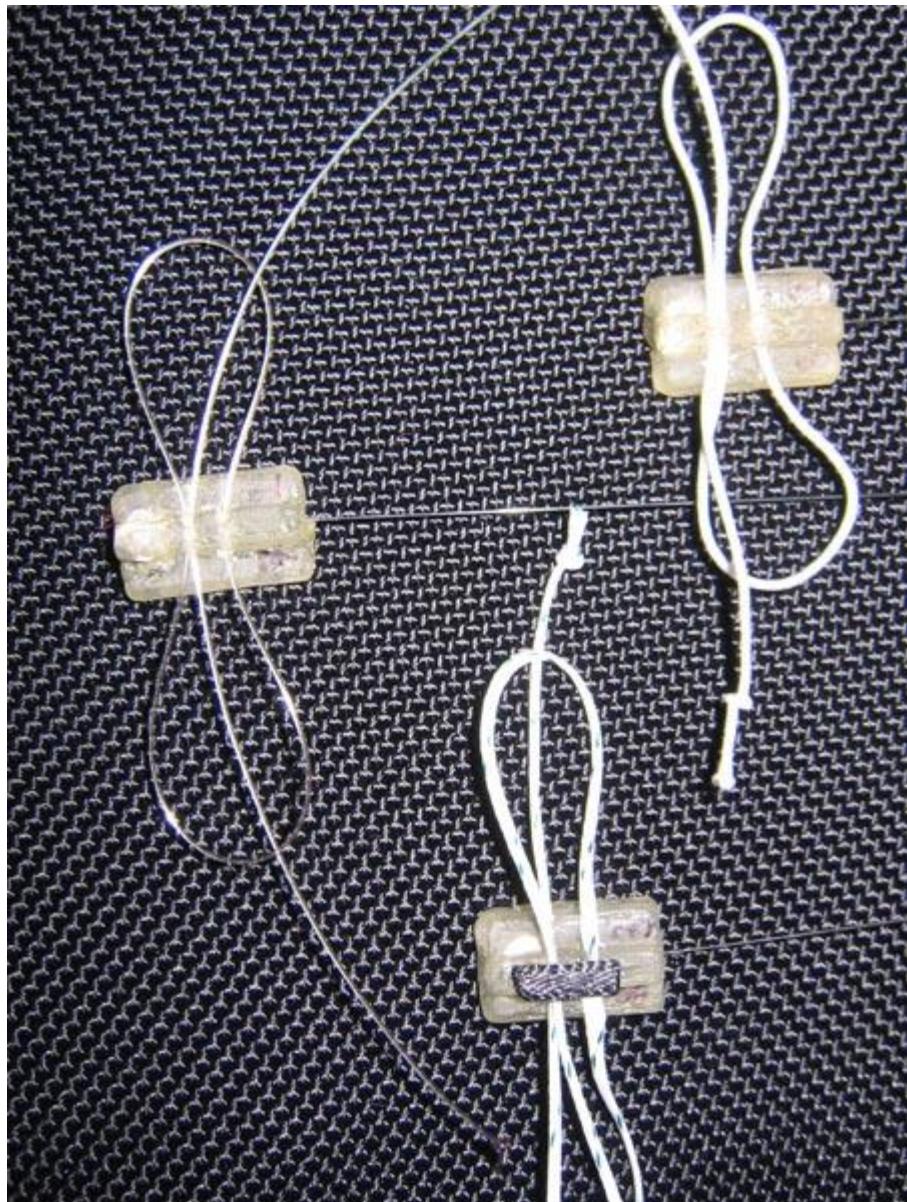
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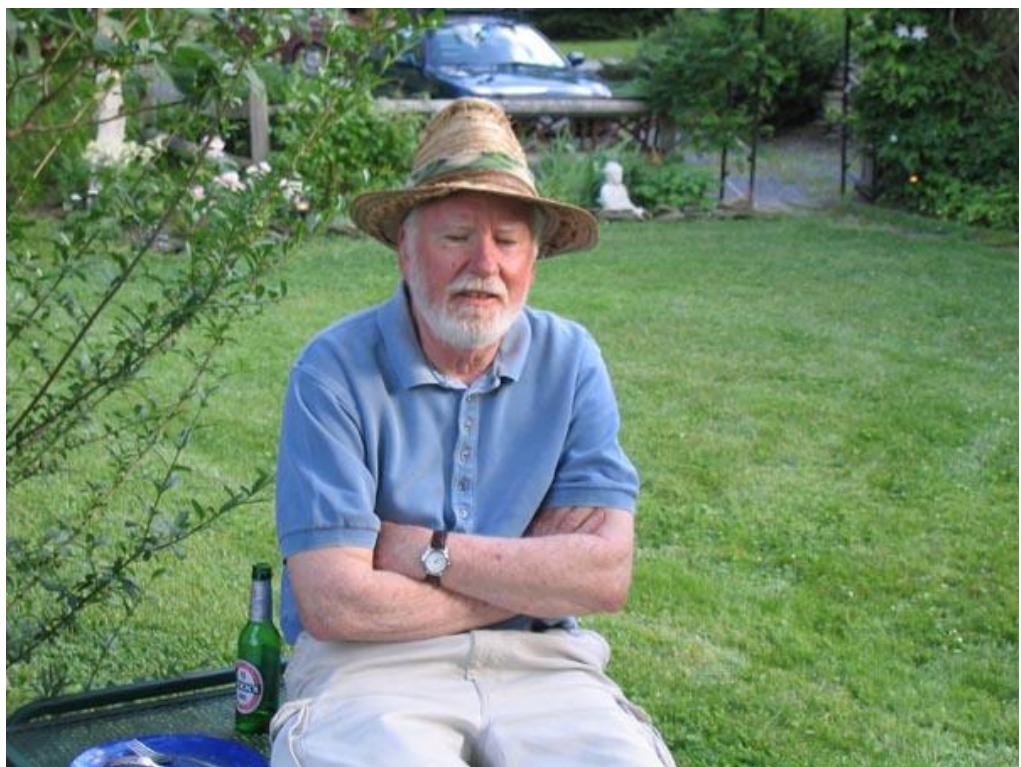
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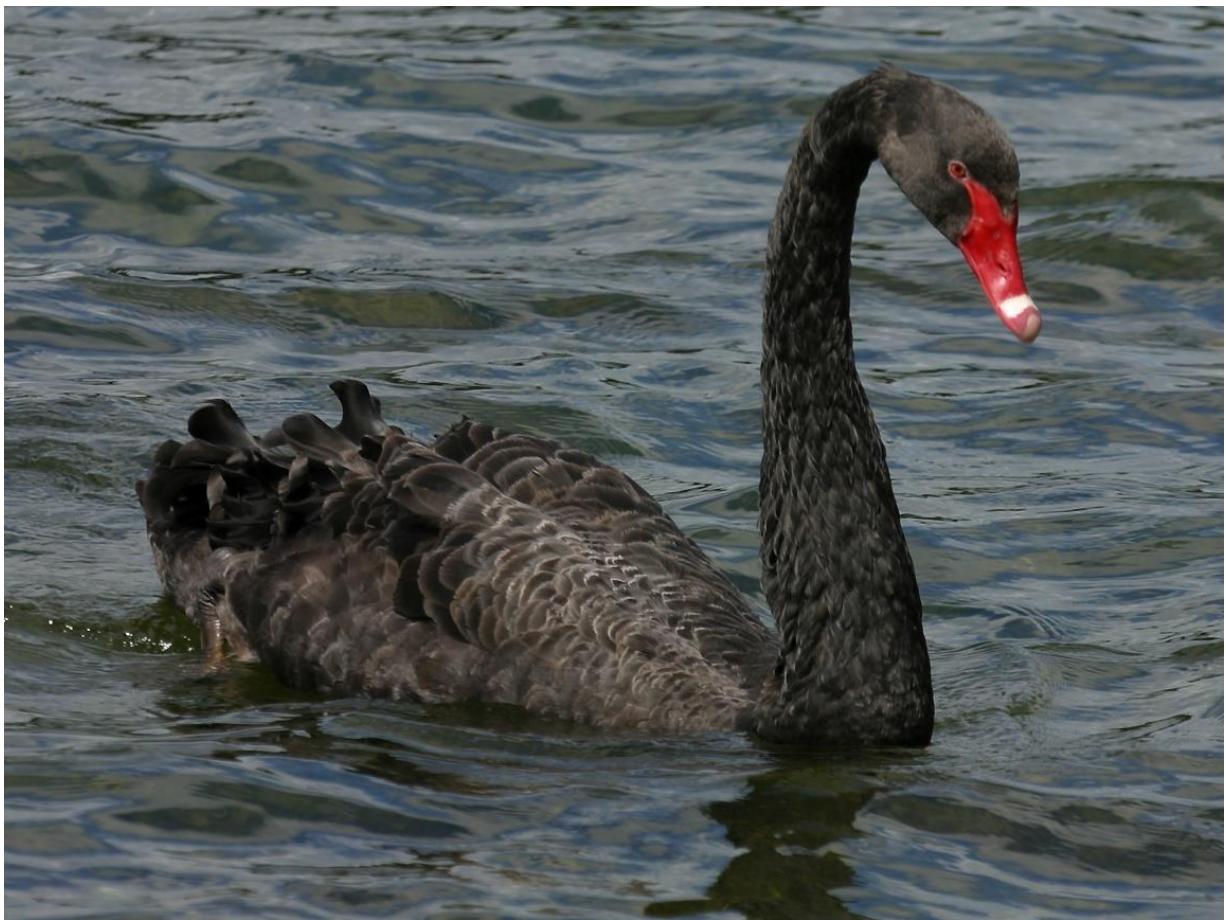
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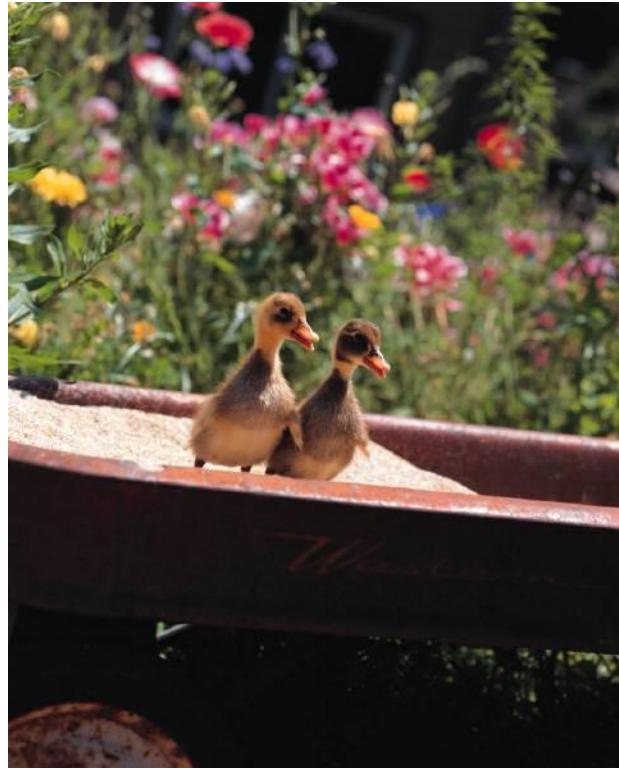


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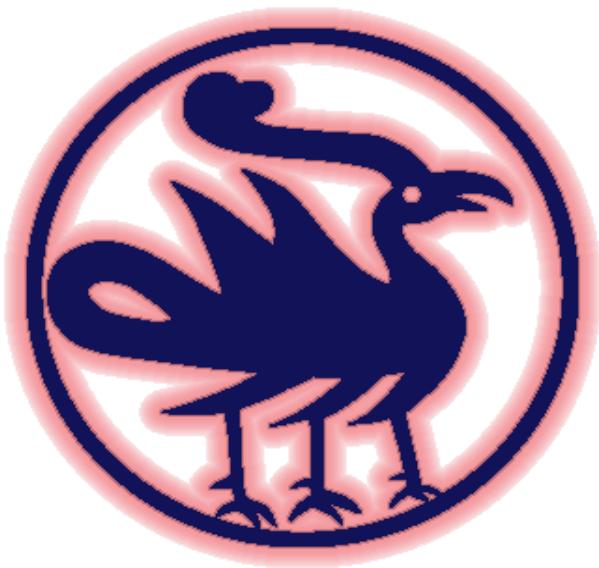
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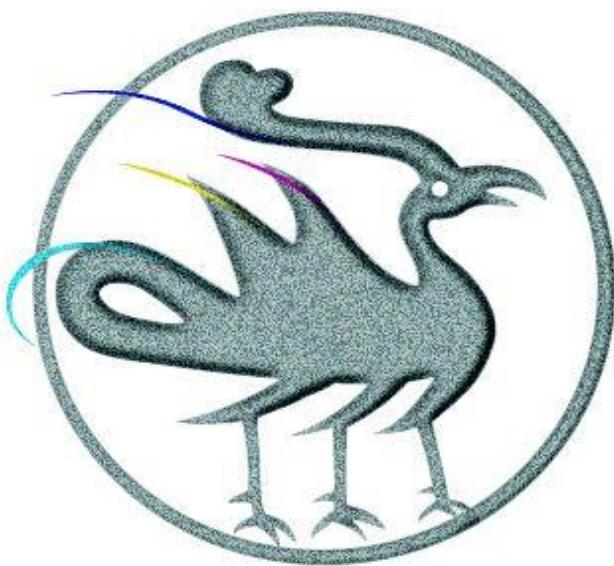
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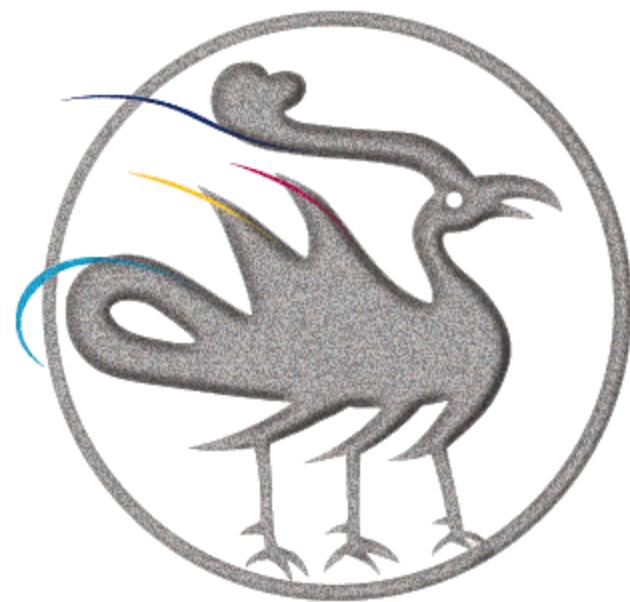
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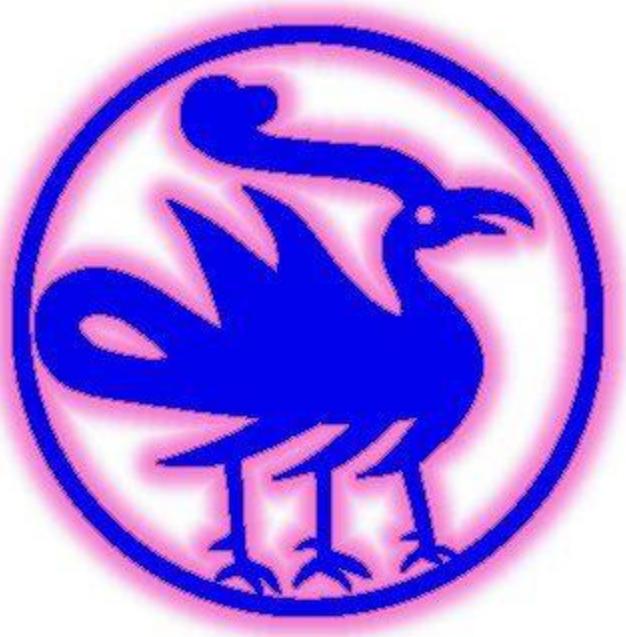
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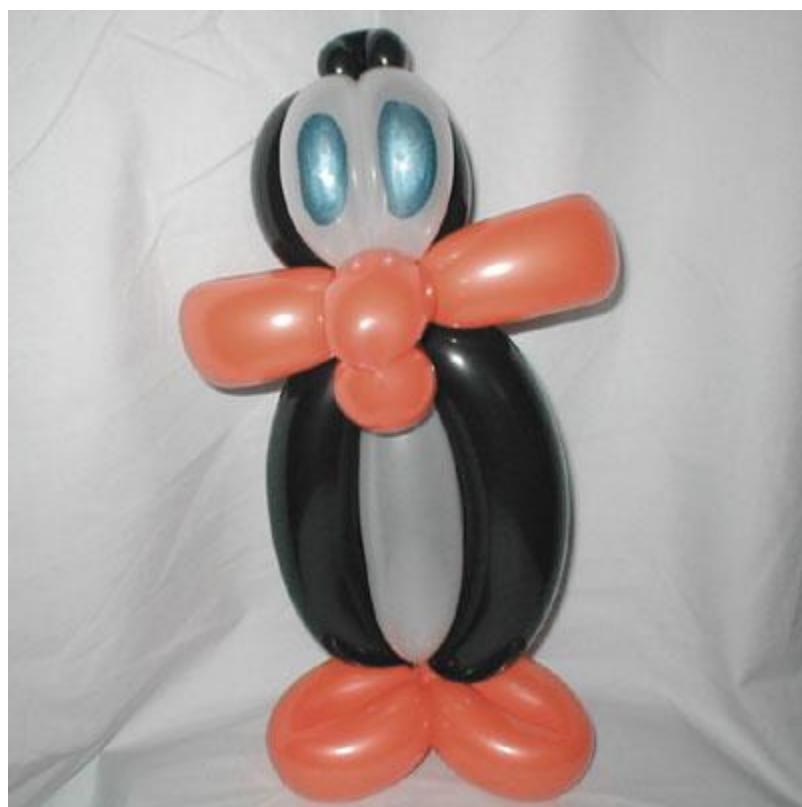
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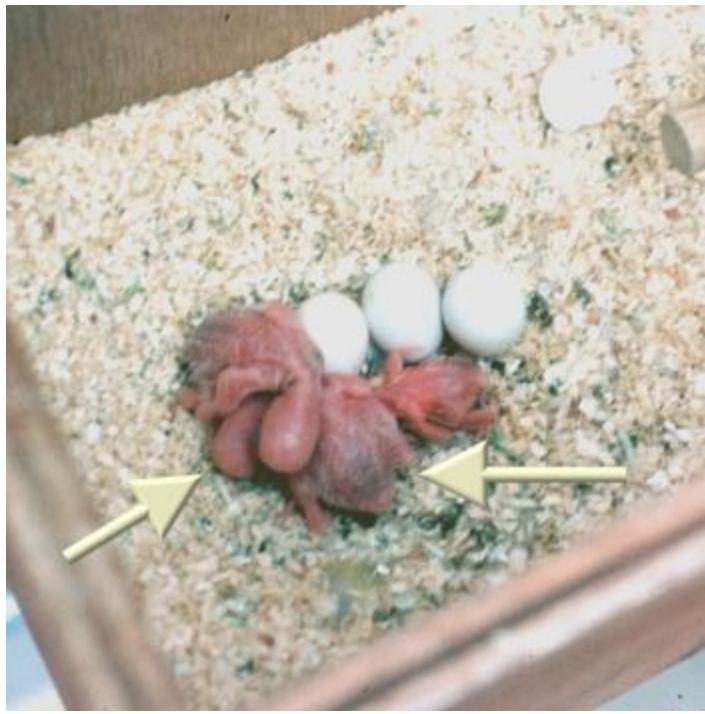
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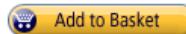
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... other and rejoin the group through a gathering **call**. ... other types of communications are used by **birds**. ... and American woodcocks have elaborate **mating** dances and ...
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... Because the female is the larger **bird**, the male needs ... her back and balances precariously during **mating** – with no ... The kiwi female **calls** the shots during **mating** ...
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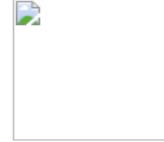
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An Insider's Guide to Enjoying Your First Birding Field Trip

by Pete Dunne

Field trips are a lot like going to a dance, and there are two schools of thought. You can just waltz onto the dance floor and let the other person lead or you can learn a few basic dance steps beforehand. Here, for those who want to get a jump on etiquette, are some of the basic rules of the birding field trip. Learn them, and you'll spend more time birding and less time tripping over your feet.

- **Rule 1 - Never miss an opportunity to use a restroom.**

Your capacity for birding may be limitless but your bladder is not. Some leaders are generous with their planned rest stops; some are miserly. Whenever the group arrives at a planned rest stop, take full advantage (and mind your coffee consumption between stops).

- **Rule 2 - Familiarize yourself with whatever pre-trip information is sent.**

Most organized field trips come with instructions. In the pre-trip material, you will almost certainly find the answers to your most pressing questions: dress, equipment needs, time commitment, lunch plans. Being prepared is the first step toward having a great time.

Re: Clothing. Rule of thumb: In winter, if in doubt, just bring it. In hot weather, cover up for sun protection-this means hat, long-sleeved cotton shirt, long pants. At any time of year, avoid bright colors, particularly white. In the universal language of wild creatures, white means "Danger! Watch Out! Hide! It's not the message you want to send."

- **Rule 3 - Don't be late.**

When you join a group, you sacrifice a measure of self-determination. One of the quickest ways to annoy the group leader and everyone else, is to arrive late and delay the group's departure.

- **Rule 4 - Don't wander off.**

The second quickest way to annoy the group leader is to wander off. You don't want to be left behind and you don't want to be the focus of an unnecessary search. If you plan to leave the group, for a short time or for the balance of the day, be certain you inform the leader.

It is in your interest to stay close to the leader and the more experienced members of the group so that you can rely on their knowledge and bird-finding skills.

Staying close applies to car caravanning, too. The rule of thumb is one car length back for every ten miles per hour of velocity. Thirty miles per hour; three car lengths behind the bumper ahead of you. Sixty miles per hour; six lengths. Don't trust yourself to keep the pace? Don't drive. Carpool with someone else.

- **Rule 5 - Come prepared.**

If the trip involves driving, make sure you have enough fuel to see you through. If the instructions state "bring lunch," don't assume that you'll be able to stop at a convenience store to pick up a sandwich. Do that, and you'll likely be eating alone.

- **Rule 6 - Check out your equipment before the trip.**

The single greatest frustration first-time trip goers face is not inexperience, but rather the lousy or malfunctioning equipment - usually optics.

If your binoculars aren't working, ask whether a loaner is available. If you don't own binoculars, do not rush out to the nearest discount store and buy some for the trip. People who do this usually end up with instruments they soon replace. Borrow binoculars for the trip. Use your field trip experience to see what instruments experienced birders are using in order to make an educated purchase later.

• Rule 7 - Speak Softly.

Human voices put wildlife on alert. Talking may also prevent a leader from hearing songs or calls and keep you from hearing instructions. Field trips are social and conversation is part of the field trip experience. If you want to converse, do so in whispers or stand away from the group.

• Rule 8 - Keep motion to a minimum.

More than sound, birds react to motion. In close proximity to birds, don't move quickly and above all do not advance until the leader gives the word. Want to draw the ire of a group? Walk toward "the bird of the day" and scare it away.

• Rule 9 - Don't monopolize the leader.

Sure you have questions. Sure you want to get to know the leader, and you want them to come to recognize your wonderful qualities, too. One of those qualities should be deference, because everyone in the group shares your ambition. Deference extends to use of the spotting scopes, too.

When the leader trains his scope on an interesting bird, and you were first to get a glimpse last time, defer to others the next several times. No matter what your place in line, first looks through a scope are quick looks. After you get an identifying glimpse, step quickly aside for the next person. If the bird is moving, reposition the scope so the next user won't have to pan back and forth. After everyone has had their glimpse, more leisurely viewing is possible.

• Rule 10 - Do ask questions.

Leaders want to share their knowledge, and questions are the catalyst that unlocks it. Don't be intimidated by what you don't know or what you presume that others know. Chances are your question is shared by others in the group. You may not be the leader, but if you trigger the answer to a question that some other member of the group was too shy to utter, you'll be their hero. That's it. All you need to know to get the most out of your first field trip experience. If it seems like too much to remember, just remember Rule #1. At any other time, there will be someone else around to ask for assistance.

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Birding and Birdwatching - Build a Bluebird Nest Box for Wild Birds

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Build a Bluebird Nest Box

Easy Box to Make

This bluebird nesting box is a great way to get started making birdhouses. You do not need to miter any edges and the entire project can be completed using one 6 foot length of of 1" x 6" lumber.

Since only simple materials and tools are required, this birdhouse is also a wonderful project for Scouts, youth groups, and beginning woodworking classes.

[Click here](#) for drawings of the pieces and dimensions you will need. (A)
[Click here](#) for a close up of the hole. (B)
[Click here](#) for a diagram of the pivot nails. (C)

See the box to the right for [wood](#) and [tool recommendations](#)

Materials needed:
Wood cut to the dimensions shown in A above
Finishing nails
1 eye screw
Wood screws

Directions:

1. Cut the wood to the dimensions in [diagram A](#). All of the pieces can be cut from one 6' length of 1" x 6" lumber.
2. Cut the front entrance hole as in [diagram B](#). This is an oval shaped hole that is 1 3/8" wide and 2 1/4" long. To begin cutting this hole, mark the dimensions on the front. Then drill one 1 3/8" circle at the top. Repeat at the bottom of the hole, overlapping the drilled holes.
3. Drill two small holes near the top of each side for

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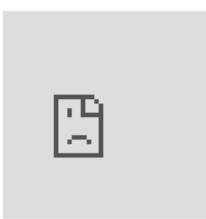
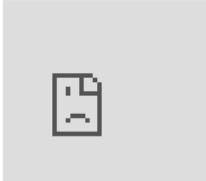
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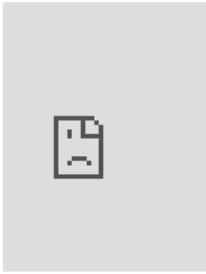


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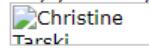
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- ventilation.
4. Drill four small holes on the bottom for drainage.
 5. Using finishing nails or wood screws, secure one of the sides to the bottom. Then secure the front and back to the same side.
 6. Slip the 2nd side into place. Secure using two nails, one near the top on each side. These nails will be pivots so make sure they are across from each other.
 7. Reach inside the box and push the bottom of the 2nd side outwards, making sure it can pivot outwards. If it is too tight, remove the nails and sand the edges so it is a bit smaller. Repeat until the 2nd side will pivot outwards. See [diagram C](#) for
 8. Screw the eye screw near the bottom of the 2nd side. This screw is to make it easier for you to open the box occasionally to monitor it as well as to clean it out at the end of the season.
 9. Drill a small hole through the front near the bottom into the 2nd side. Push a bent nail (I have a few by this point!) into the hole to keep the 2nd side closed. If you wish, use a small wood screw instead of the nail.
 10. Nail or screw the roof to the nest box.
 11. Mount the bluebird nest box to a pole, fence post, or tree. Be sure to use some type of predator guard to keep squirrels, snakes, racoons, and other creatures from harming the nestlings. See the [Birdhouse Spec page](#) for the correct mounting height.



May you always hear the whisper of wings...



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aa010703a.htm page 3

FACILITIES

CHICKS

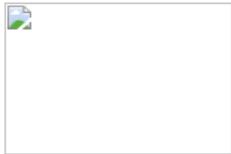


Young chicks can be maintained in a variety of suitable facilities. A small portable pen, 12 feet long, 4 feet wide and 2 foot high can be adequate for a number of chicks. The pen is placed on short cut grass and moved daily. Chicks are brought out to the pen after the temperature reaches above 60 F and the sun is shining. Birds can be maintained in this type of facility until the temperature drops or until weather is prohibitive. Include some type of shade and wind break as young birds are sensitive to extreme sun and wind.

Young birds should be brought indoors in the evening and maintained in a heated environment until at least 2 to 3 months of age. Temperature in indoor shelters should be maintained at least 65 F and enough room to allow the birds to exercise should be provided. In areas where weather is more severe, this period may need to be extended.

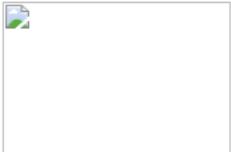
Do not provide feed at night but available water is acceptable. Feed the young birds as outlined in CARE OF YOUNG BIRDS section, prior to turning them out in the morning.

JUVENILES



Juvenile birds between 3 and 10 months of age can be maintained in a similar, but larger facility as young birds. For convenience, access to the indoor facility should be available directly from the outdoor pens. However, shelter is not needed except in extremely cold areas. The amount of space per bird, for both indoor and outdoor facilities should be increased for this age bird as compared to that available for younger chicks. Outdoor pens can be of any type of substrate but ground cover such as grass, clover, or alfalfa is ideal. Grass should be kept at a closely mowed level, especially when grass begins to dry out or turn to seed, as impactions are more common at this time. Daily mowing may be necessary during some periods of the year.

ADULTS



Pens and facilities for adults vary considerably. Most ranchers maintain adult pairs or trios in facilities that range from five thousand square feet to an acre or more. In general, the more room that can be provided, the better the situation. Common fences and line of sight access to neighboring pairs is often desirable but may not be practicable with overly aggressive males.

Housing or shade is usually provided although not always utilized. If birds are accustomed to being fed and watered in a shed they will be more easily confined when necessary and may build the nest and lay indoors. Alley-ways for movement of birds from pen to pen, access for haling, and provisions for confinement for veterinary care should be considered at the time of construction. Although surprising, most ratites do not require indoor shelter once over 6 months of age and often refuse to use such structures, independent of weather.



Fencing is dependent on personal preference and economics. Chain link is good but may result in problems related to leg and foot injuries and is not easily climbed if escape from the pen by egg gatherers is necessary. Tubular "cattle" type fence is suitable and offer some benefits and others types of woven wire fencing are routinely used.

Many ranchers are now utilizing group pens consisting of several males and numerous females in larger acreage. This appears to provide some benefits and is more nearly similar to a natural situation. Early results indicate that increased fertility, more egg numbers, and extended laying periods can be expected in this type of set up. Several acres of enclosed pasture are needed for this type of operation.

Difficulties with a group breeding situation include the inability to determine exactly the resultant chicks parentage.

[Ostrich Book](#)



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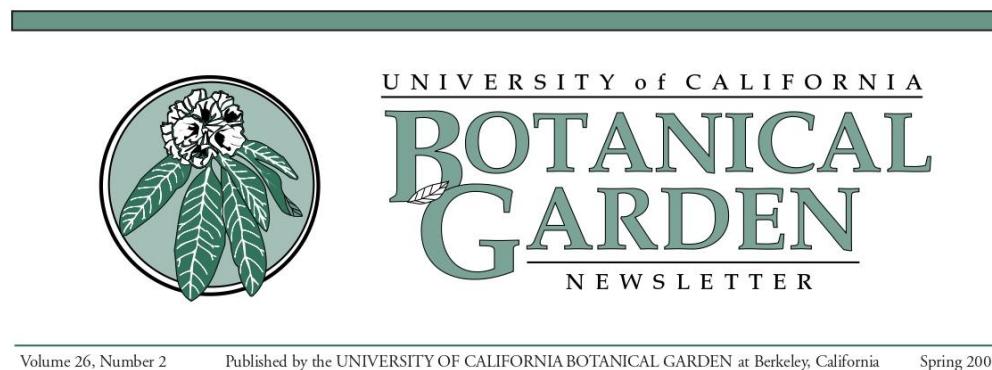
Dear Sir

Further to our conversation everything we have discussed has been done

Yours faithfully

John Doe

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Volume 26, Number 2

Published by the UNIVERSITY OF CALIFORNIA BOTANICAL GARDEN at Berkeley, California

Spring 2001

Birds at the UCBG

"It's a hummingbird! But is it Anna's, Allen's or Rufous?"

Academic interest in the Garden's bird life over the last few years has primarily been associated with undergraduates studying the territorial behavior of hummingbirds. Any regular Garden visitor can tell you however, that you've never really experienced the Garden until you have taken the time to sit and just watch the birds, listen to their songs and enjoy the way in which they use the Garden! Encouraged by the vast plant variety and habitat diversity, there are around seventy-six bird species regularly sighted here over the course of an average year. The hope of spotting one of the more rarely sighted birds, such as the Western Kingbird or the White-throated Swift, keeps our endless parade of avid birdwatchers in thrall.

Our resident birds, however, whether it's an audacious jay, a noisy woodpecker or a colorful finch, provide plenty of ongoing interest for the Garden community.

The diverse collections of the Garden support an equally diverse population of birds, as is apparent in the list from the recent Christmas Bird Count. In addition to providing general shelter for both resident and migrant species, our collection provides food and nesting sites for many different taxa. The Garden environment offers a range of habitats that are rather different from the native chaparral of the canyon. Some visitors to the Japanese Pool, such as belted kingfishers and green and blue herons, might not otherwise stop in Strawberry Canyon. Native chaparral species are found in parts of the Garden that more closely approximate their preferred habitat. Wren tits, California thrashers, and



Aloes in the Southern African Area attract hummingbirds and demonstrate how birds at the Garden enjoy the diversity of plants in this collection.

spotted towhees are most commonly found in the scrubby areas of the South American and Australasian sections. Similarly, native riparian species are found in the trees along Strawberry Creek, such as Wilson's and orange crowned warblers.

Many birds have identified new food sources among the many non-native plants in our collections. This is particularly obvious when watching hum-

birds feed on both native salvias and penstemons, and also on bird-pollinated plants from other parts of the world. Aloes in the Southern African Area are pollinated by sun birds in their native habitat. These small colorful nectivores perch on the rigid blossom stalks of the aloes. This is a distinct contrast to the hovering feeding habit of the hummingbirds, which as a group are restricted to North and South America. Nonetheless, as a walk through this area at this time of the year demonstrates, hummingbirds utilize aloes extensively and assertively defend their feeding resources against other intruding hummers.

—Chris Carmichael

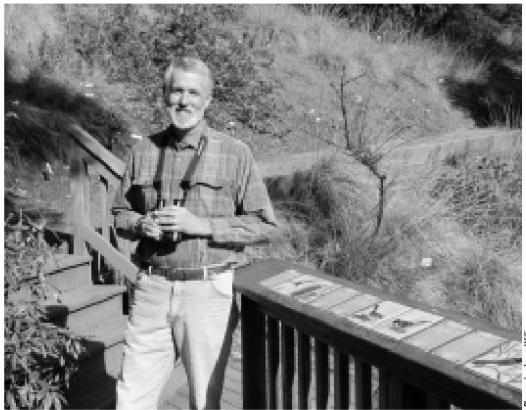


Photo by Janet Williams

When not watching birds from the Elizabeth Hammond Interpretive Center, where he is pictured here, noted local ornithologist Dennis Wolff, regularly teaches popular birdwatching classes in the Garden.

From Killing to Counting

Before 1900, Americans engaged in a holiday tradition known as the Christmas "Side Hunt". People would choose sides and go afield with their guns; whoever brought in the biggest pile of feathered quarry won. On Christmas Day 1900, ornithologist Frank Chapman, an early officer in the Audubon Society, called for an end to the slaughter. Rather than shooting birds, he suggested counting them. From Toronto to Pacific Grove, California, the Christmas Bird Count began. In its first year, 27 people participated, counting 18,500 individual birds of ninety species.

On Christmas Day 2000, 52,000 people participated in 1800 counts in the United States and Canada. They sighted 78,636,382 individual birds of 676 species! A century of bird counts has amassed a wealth of data which scientists use to monitor the health of bird species, pinpoint and explain trends, and detect the rise of environmental threats.

Along with three other members of the Audubon Society, I came to the rich and varied habitats of the UC Botanical Garden for this annual count. We found a total of 226 individual birds of 38 species, including such rarities as hermit and black-throated warblers.

—Dennis Wolff

Dr. Chris Carmichael, UCBG Manager of Collections and Horticulture, is one of our noteworthy birders, a group which also includes Dr. Jennifer White, Associate Director for Education, and Curator Holly Forbes. Chris' academic background in vertebrate zoology equips him to effortlessly make the connections between the birds here in the Garden and their relationships to the plants.

AUDUBON CHRISTMAS COUNT DECEMBER 17, 2000

American Robin	30
Anna's Hummingbird	25
Steller's Jay	21
Bushtit	16
Golden-Crowned Kinglet	14
Ruby-Crowned Kinglet	12
Yellow-Rumped Warbler	10
Townsend's Warbler	9
Western Scrub-Jay	9
Chestnut-Backed Chickadee	7
Hutton's Vireo	7
Song Sparrow	6
California Towhee	5
Golden-crowned Sparrow	5
Bewick's Wren	4
Fox Sparrow	4
Dark-eyed Junco	4
Turkey Vulture	3
Hermit Thrush	3
Allen/Rufous Hummingbird	3
Common Raven	3
Band-Tailed Pigeon	2
Northern Flicker	2
Black Phoebe	2
Red-breasted Nuthatch	2
Brown Creeper	2
California Thrasher	2
Spotted Towhee	2
White-crowned Sparrow	2
Cooper's Hawk	1
Sharp-shinned Hawk	1
Red-breasted Sapsucker	1
Nuttall's Woodpecker	1
Hairy Woodpecker	1
Wrentit	1
Black-throated Gray Warbler	1
Hermit Warbler	1



SIBLEY'S GUIDE TO BIRDS

National Audubon Society: The Sibley Guide to Birds, written and illustrated by David Allen Sibley; A Chanticleer Press Edition, Alfred A. Knopf, NY, ©2000; 544pp. Flexible Binding. \$35.00.

Most visitors to the Garden come to see and study our special plants, but a surprising number also come to see the animals and birds which feed and take shelter in the hospitable environment. We have newts which breed yearly in our Japanese Pool and monarch butterflies visiting our milkweed plants. Now and again we are surprised to learn that we are on the Audubon Society's Hotline, as we were several years ago when dozens of visitors came to see a rare bird sighted in the southwest corner of the Garden.

In past years, the Roger Tory Peterson *Field Guide to Western Birds*, or the National Geographic Society's *Field Guide to Birds of North America*, were seen tucked under the arms of our 'Garden Birders'. Now there is a new, up-to-date field guide these birders will want to own, although its size and weight make it awkward to carry in the field.

The Sibley Guide to Birds is a great user-friendly guide containing over 6600 wonderfully detailed watercolor paintings of 810 species and 350 populations of North American birds. Descriptions and remarks accompany the illustrations, removing the need to flip back and forth between text and pictures. The birds are shown in similar poses to make comparisons between species easy. All important plumages are depicted and range maps show migration routes, summer, win-

ter, and breeding locations, and bird distribution. Of particular interest are the good introductory pages preceding each family or group of families showing bird classification and speciation at a glance.

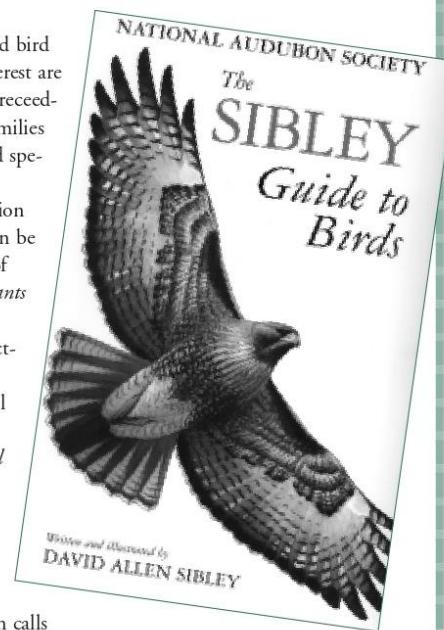
In many ways the publication of *The Sibley Guide to Birds* can be compared to the publication of *The Jepson Manual: Higher Plants of California* a few years ago. Both were preceded by respected long-used references. It is likely that the *Sibley Guide* will become the current authority for birds, as the *Jepson Manual* has become for plants. But keep your worn, well-loved field guides handy. For this reader, at least, it is hard to think that the beloved California Quail in the Garden calls "put-way-do" rather than the familiar "chi-ca-go" of old, which we teach the touring school children.

The Garden Shop also carries the following books related to the above review:

■ *Birds of Northern California* by David Fix and Andy Bezener; range maps by Don Roberson and David Fix; Lone Pine Pub., Renton, WA, ©2000; 384pp. Paper. \$19.95.

■ *Birds of San Francisco and the Bay Area*, by Chris C. Fisher and Joseph Morlan; Lone Pine Pub., Renton, WA, ©1996; 159pp. Paper. \$9.95.

■ *Common Dragonflies of California, A Beginner's Pocket Guide*, by Kathy Biggs; Azalea Creek Pub., Sebastopol, CA, ©2000. 96pp. Paper. \$9.95.



■ *Newts and Salamanders, Everything about Selection, Care, Nutrition, Diseases, Breeding, and Behavior*, by Frank Indiviglio; with photos by Richard D. Bartlett; illus. by Michele Earl-Bridges; Barron's, Hauppauge, NY, ©1997; 128pp. Paper. \$6.95.

Brochures:

■ *Birds of the UC Botanical Garden*, UC Botanical Garden Staff. \$1.00.

■ *Butterflies of the San Francisco Bay Region, A County Species List*, 5th ed., by John Steiner; San Francisco Bay Wildlife Soc, 1988. \$1.00.

—Elly Bade

DIRECTOR'S COLUMN

Celebrating the Garden

Spring is here again! The hills are green and spangled with flowers. The wind is whipping across the coastal bluffs, and anyone with even the slightest inclination toward gardening has their hands in the soil. As I watch the seasons march across the landscape and think back to the past year, I'm amazed at the amount of progress we have to celebrate here at the Garden.

The living collection is in superior condition. Over the years, the horticultural staff has done an inspired job of maintaining and building the collection. However, with leadership by Manager of Collections and Horticulture, Chris Carmichael, and better access to materials and supplies, they have added new shine to the Garden. I invite you to push past the construction sites in the entrance to get a better look!

Ah, yes, those construction sites. We were so excited when they started. Now, we look forward eagerly to their completion. The Garden has not been a peaceful place to work or visit this year. Staff and volunteers have been wonderful, carrying out their work over the din of jackhammers, dump trucks, cement mixers, and more. From all this dust, mud, and upset, the Garden is gaining many physical improvements. Some, like the utility upgrades, make our jobs easier but are invisible to visitors. Others, such as renovated bathrooms and FEMA restoration of pathways in the Mexican and Central American area, are essential but not sensational. Many projects, though, are downright sensational!

Master rock garden creator, Phil Johnson, has just completed a spectacular hardscape in the Southern African section, and horticulturist Lawrence Lee will soon begin planting it with material obtained during his collecting trips to South Africa. This garden will feature the natural beauty of bulbs and succulents from the winter rainfall areas of the Karoo and Fynbos semi-arid and desert habitats. It also provides an opportunity to inform visitors about the precarious situation of these habitats in the face of regional development and global climate change.

Our new Arid House is also nearing completion. The name has recently been changed to Arid House from Desert Greenhouse — Arid House being more appropriate for that collection, though we are still making the name transition. This structure will house a substantial number of the most biologically and scientifically valuable plants in our collection, including many living "type" specimens. Type specimens are the exemplar individuals a taxonomist uses to describe a new species. Other specimens belong to species that are now extinct in the wild, and are therefore irreplace-

able. The new house provides the public with excellent visual access to the exciting and unusual plant forms in this collection while ensuring their security.

UC researchers are anxiously awaiting opening of the Center for the Study of Plant Conservation (CSPC) at the Garden. Although the lab is not yet finished, scientists associated with this center are already exploring a diversity of questions related to plant conservation. Richard Shefferson, a graduate student at the Center, writes in this issue about his research devoted to discovering the types of fungi that sustain terrestrial orchids. Another graduate student, Jessica Riquetti, recently established a major field experiment to determine whether soil-borne organisms can limit the spread of European beach grass, an invasive species that reduces native plant diversity in sand dunes along the Pacific coast of North America. Work by these students and other scholars will be greatly facilitated by the new Center.

In preparation for our next round of construction, we have just begun design of the Jane Gray Research Greenhouse, which will be an important adjunct of Garden research in plant conservation and ethnobotany. This house will be erected in the place currently occupied by the temporary arid house and will serve researchers from both the CSPC and elsewhere on the Cal campus.

Although construction is the most visible sign of progress that visitors can see, the Garden has many other achievements to celebrate as well. Our educational outreach programs are receiving national recognition. Many partners are joining our Math in the Garden initiative. Beginning this spring staff at the UC Davis Arboretum, Brooklyn Botanic Garden, Missouri Botanical Garden, Morris Arboretum, and Atlanta Botanical Garden become active partners in the development process of the 'Math in the Garden' project as they try out the activities in their own programs. San Francisco Girl Scout Council troops and 4-H programs across California are also partners in this effort. Over the next year their evaluations of the effectiveness of the project's activities will provide crucial information to ensure that the final published materials will fit into different informal settings and programs and work in gardens throughout the country. Collaborations with these, and other partners, provide audiences diverse program opportunities that strengthen this and other aspects of the Garden's Education Programs.

Cactus drawings by UCBG horticulturist, Judith Finn. Above: Gymnocalycium saglionne and at right: Euphorbia cf. leuconeura.

Our collaboration with East Bay Municipal Utility District, which resulted in our spectacular and innovative contribution to last year's San Francisco Flower and Garden Show, is now producing exciting new Garden interpretation materials. Garden staff and dedicated volunteers worked with EBMUD staff to develop an extensive and well-received tour of Plants for Water-wise Gardening. (See the Education Director's column for more information about this tour.) The tour takes advantage of our diverse and outstanding collection to illustrate landscape uses of water-conserving plants. Most species highlighted in the tour are available in the horticultural trade, but some are not, which puts the tour on the leading edge of horticultural innovation.

Through all of these changes, the Garden continues to expand its primary mission of support for botanical research. New molecular tools are allowing exciting discoveries in evolutionary biology and plant systematics. These tools work best on DNA extracted from live tissues, which makes living collections such as ours ever more important scientifically. Important new studies that have used UC Botanical Garden specimens are finding exciting and sometimes disturbing results. For example, Olmstead, DePamphilis, Young, and colleagues report this spring in the *American Journal of Botany* (Vol. 88: 348-361, 2001) that the snapdragon family (Scrophulariaceae) is not a natural evolutionary grouping. In their new interpretation, which was based in part on samples from the UC Botanical Garden, the only member of this family in the California flora that will remain in the Scrophulariaceae is the eponymous *Scrophularia californica*. Even the snapdragons (*Antirrhinum*) will no longer be in the "snapdragon" family.

Although living tissue is the *sine qua non* for molecular phylogenetics, it is still essential that every plant used in such research be vouchered. Vouchering, which involves removing a sample of the plant to produce a herbarium specimen, creates a permanent record that persists after death of the plant itself. It is essential that Garden material be vouchered so that future scientists can examine the specimens that today's botanists are using to classify plants and understand their evolutionary relationships. Thus, an important goal of the Garden is to voucher all accessioned plants in our collection. This academic year, our graduate student assistant, Rich Shefferson, has helped to voucher 274 plants in our collection.

With all this happening this year, one might ask whether Garden staff has had time to plan very far into the future. In fact, we have embarked on the early stages of strategic planning and, as the first round of construction nears completion, we will continue to move forward on this very important project.

—Ellen Simms



Garden Visitors

(left to right): Horticulturist Elaine Seldack accompanied Mark Flanagan, "Keeper of the Gardens" at Windsor Great Park, and William McNamara, director of Quarryhill Botanical Garden in Glen Ellen, CA, during their visit on April 16th. Mr. Flanagan was the April speaker for the California Horticultural Society meeting.

Gardening Tips

■ The larvae of the diamond back moth can be a serious pest for members of the cabbage family, including cabbage, broccoli, collards, kale and others. The insects are becoming resistant to Bt, which has been used widely to control the insect. A researcher in Florida found that the larvae of the moths prefer feeding on highly fertilized collards more than on any other members of the family. Fields of crucifers to be protected are surrounded by a crop of specially treated collards, resulting in a reduction of sprays from 75 to 100%. In addition, a naturally occurring parasitic insect of diamond backs built up in the collards, and this helped control them in the desired crop. *Agricultural Research* 47 (3): 26.



■ The old world fern, (*Lygodium microphyllum*), introduced into Florida in 1950, now covers over 40,000 acres. In the last 6 years, there has been a 100 fold increase. A single leaf can be 100 feet long. Fortunately, it is believed that the plant will not move farther north than central Florida. *American Nurseryman* 191 (3): 10.

■ *Euphorbia esula*, an introduced species in the northern midwestern states, has colonized vast areas of marginal and non-agricultural land, displacing many beneficial plant species. In addition, it is toxic to sheep, cattle and horses. Recently, a gall midge was released which produced galls on the stem tips resulting in their destruction, thus preventing flowering and seed production. The insect may produce 3 or 4 generations in a season though the first generation produces the largest number of adults. It is these that can be harvested and used for new releases. *Biological Control* 16(2): 128-132.

—Robert D. Raabe

The Overlooked Equation

When I was an undergraduate living in Chicago, I volunteered at local county nature preserves to help restore Illinois' endangered prairies, savannas, and wetlands. Very often, my work involved monitoring the endangered plants that grew in the area, especially the imperiled populations of native, wild lady's slippers.

The lady's slippers we all know and love (*Paphiopedilum spp.*) are tropical, and have been propagated and hybridized for many years. Should you ever see a lady's slipper of the genus *Cypripedium* on display at a nursery, be warned – it was most likely stolen from the wild. Cypripedioid lady's slippers grow on the wild lands of North and Central America, Europe, and Asia, and have not been propagated successfully at all. Yet, as we have seen in other endangered plants, propagation is very often integral to successful restoration.

Why has propagation been so unsuccessful? The biology of orchids, especially the rare terrestrial orchids that evolved in the temperate regions of the world, is very complex. In fruiting structures known as pods, they produce thousands to millions of seeds no longer than a single millimeter, and half that in width. These seeds very rarely survive to produce a mature plant, and this seems to be why they have evolved to produce so many seeds all at once. The seeds scatter in the wind and find a new place to settle in the soil. Once the winter snows and rains are over, they imbibe water, and then they just sit. Why? Because they cannot progress any further



Photo by Jane Williams

This Cypripedium californicum in the Garden was collected by Garden horticulturist, Roger Raiche.

in their development without the aid of a soil-inhabiting fungus. The orchid family is one of the few plant families that depends completely on soil fungi for germination. This kind of interaction is called "mycorrhizal," and requires some more explanation.

A mycorrhiza is an interface of two organisms – a plant and a fungus. The fungus, which can be one of many different species, grows through the soil as a mass of tiny filaments known individually as hyphae, forming a hyphal network called a mycelium. The fungus grows outward, looking

GARDEN NOTES

SUDDEN OAK DEATH...Horticulturists Judith Finn and Jerry Parsons attended an all day symposium, "Combating the Sudden Oak Death *Phytophthora*: a new disease", in Marin County, hosted by UC Cooperative Extension on March 9th.

CHANNEL ISLAND VISIT...Horticulturist Nathan Smith accompanied Steven Junak, of the Santa Barbara Botanic Garden, on a three-day visit to San Nicolas Island in late March. This island is part of the southern group of Channel Islands off the coast of southern California. They were conducting plant surveys and removing exotic plants. Nathan was able to collect several plants for the Garden's Californian Area.

GARDEN SHARING...Curator Holly Forbes, distributed duplicates of the Garden's epiphytic cactus collection to the

Huntington Botanical Gardens in San Marino and to Ganna Walska Lotusland in Santa Barbara. It is common practice among gardens to share duplicates of collections, providing some protection against loss in any one location. John Trager, Curator of Desert Collections at the Huntington, donated several collections of South African material for the Garden's African Area.

RESEARCH GRANT...We are pleased to report that the Genetic Resources Conservation Program at UC Davis funded a grant proposal by Dr. Jason Koontz and Holly Forbes to study the genetic variability of Baker's Larkspur, *Delphinium bakeri*. The research will seek to determine the genetic diversity of this species to obtain base-line data for future research and conservation efforts. The grant money will pay for the cost of DNA analyses to be performed by Dr. Koontz. Baker's

for new patches of resources to digest and absorb. Part of the mycelium grows into the root system of a plant, penetrating the root tissue itself, and "colonizes" it. Other parts of the same mycelium grow far beyond the range of the plant's root system, and collect nutrients such as phosphorus and calcium. Amazingly, the mycelium then gives the plant vast quantities of these nutrients, which are very often limiting to the plant's growth. But the fungus does not do this out of the goodness of its fungal heart! It gets a very valuable commodity from the plant: carbon. The plant produces sugar in its photosynthetic leaves, and it now appears that, on average, at least 20% of all the sugar produced by the plant goes to the fungus. This makes sense: the plant is limited much more by phosphorus, calcium, and other nutrients than carbon. Hence, the fungus and the plant seem to exist in a mutually beneficial system.

The importance of mycorrhizae is evident in the fossil record, which shows that the first land plants (now thought to be *Rhynia* species), growing roughly 500 million years ago, actually had mycorrhizal structures in their roots. Indeed, current estimates suggest that 90% of plants are mycorrhizal – a situation that clearly displays the importance of this unusual interaction.

Which brings us back to the orchid. Orchids are unlike any other plants. We are discovering that this is true in their biology as well as in their aesthetics. Orchids break all the rules. With most plants, germination and growth are possible

without fungi, although the plant will generally be stunted throughout its life. But orchids do not appear to grow without these organisms. Although some orchids can be cultivatable in the lab under very specific conditions, these orchids generally grow poorly relative to their wild-grown kin. More and more we find that most orchids cannot even germinate without a fungus.

Why should this concern us? The kind of interaction that orchids exhibit with mycorrhizal fungi is very different from what we are used to, and this has important ramifications for propagation, and ultimately restoration. First of all, we have as yet not seen any evidence that orchids donate carbon to the fungus. Second, we have found that as seedlings, and in the case of the non-photosynthetic "ghost" and "phantom" orchids, orchids even extract sugar from the fungus! Third, orchids are very particular about which fungi they will associate with, and it appears that they choose fungi that are mycorrhizal, or sometimes even pathogenic, on local trees and other plants. So, these unusual plants indirectly acquire their sugar from other plants in the ecosystem. Fourth, orchids native to the northern temperate latitudes generally stay within the soil as seedlings for many years without developing any leaves, relying on mycorrhizae for complete nourishment. Finally, even mature, photosynthetic orchids choose not to break the surface and sprout leaves in some growing seasons. This happens particularly often in lady's slipper populations. In my Midwestern study sites, I have found that lady's slippers can stay belowground like this for many years without interruption, while still growing more root and rhizome tissue. Other researchers have found very solid evidence that this "dormant" condition can last for 25 years or more. Considering that lady's slippers have very low sugar reserves, this is an amazing feat.

The key, then, to understanding what can be done to restore native orchid populations, which are in decline all over the world, is to explore this overlooked equation: orchid + appropriate fungus + appropriate conditions = successful growth.

It is an exciting topic. We are now beginning to understand the nature of this puzzling interaction, and modern scientific methods and tools, including molecular techniques, genetic sequencing, carbon-isotopes, and mathematical and statistical theory, are helping us in tackling major environmental questions. My research is an example of the conservation issues which will be investigated by Cal scientists and graduate students at the Garden's new Center for the Study of Plant Conservation.

—Richard P. Shefferson

Larkspur is one of several endangered and rare California native plants the Garden is committed to helping conserve through its participation in the Center for Plant Conservation. Dr. Koontz studied the genus *Delphinium* for his dissertation project. He is now at the Center for Biodiversity of the Illinois Natural History Survey.

NEW STAFF MEMBER...

We extend a warm welcome to **Ms. Leslie Wozniak** who has joined the staff at the Garden in the capacity of Visitor Services Specialist. Leslie is a long time fan of the Garden and brings a wealth of work skills to the new position.



Photo by Janet Williams



EDUCATION AT THE GARDEN

One goal of the Education Program is to encourage visitors to discover the Garden's magnificent collection and to look at plants from new perspectives. While our seasonal self-guided tours showcase different plants in their peak flowering or display seasons, other brochures focus on ethnobotanical (Chinese medicinal herbs) or special collections

(serpentine plants). Building on the interest generated through our successful collaboration at last year's San Francisco Flower and Garden Show, the Botanical Garden and the East Bay Municipal Utility District (EBMUD) have teamed up again, this time to develop a self-guided tour in the Garden. This interpretive tour of the collection focuses on plants that grow successfully in the Bay Area, but use little water.

Most people have no idea how much water their garden needs. The typical Bay Area residential landscape is irrigated enough each year to flood it six feet deep. This is at least twice as much as plants need for healthy growth. Using water-efficient plants and creative design, local gardeners can create a garden that thrives on little more than natural rainfall. Properly designed, a water-efficient garden is easier to maintain than one that is over-watered. It requires less weeding, pruning, mowing, fertilizing, and pest control. It is better adapted to fluctuations in rainfall and seasonal changes. There is no one way to create a water-efficient garden. The Botanical Garden is filled with a plethora of exciting possibilities from around the world.

This walking tour of the Garden introduces you to some of these beautiful plants that thrive in the Bay Area. California's chaparral is our local community of drought tolerant plants. The climate and plant communities in Chile's matorral, South Africa's fynbos, and the



The shining silver leaves of Leucadendron argenteum make it an interesting choice for water conservative landscaping in the Bay Area. Threatened in its native habitat in South Africa it can be seen in the Garden in the Southern African Area, where it is just one of the 125 exciting plants in the new Water-Wise Gardening Tour.

Mediterranean maquis, with their winter rains and summer drought, are but a few of the parts of the world that have water-conserving plants similar to California's chaparral. Most of the plants on this tour have been in our collection for many years. They will give you a good idea of what that seedling in the local nursery will look like once it gets established in your garden.

Photo by Barbara Lyss

This new publication is the collaboration of the Garden's horticultural, educational and communications staff working with three knowledgeable and dedicated docents — Barbara Lyss, Kathryn Welch and Alison Mills. After hours of walking through the Garden and conversations with horticulturists, Barbara, Kathy and Alison wove fascinating plant histories, horticultural information, name derivations and ethnobotanical information into stories for more than 100 plants. A lot of give and take occurred as the Garden staff vetted the information from different perspectives. Weeding out some plants that we all loved but which did not fit all the criteria was one of our biggest problems. Plants included on the tour use little water, are available (or could be available) in the horticulture trade, and are not weedy or endangered.

Ten thousand preview versions of the tour are available this Spring: in the Garden, at this year's San Francisco Flower and Garden Show and at Earth Day events. Over the next several months, Education staff will be collecting evaluations from visitors. This information will be used to improve the final version of the brochure. I invite you to come to the Garden, go on the tour, and give us your feedback.

We are grateful for EBMUD's participation and support of the process and production of this new exciting self-guided tour of the Garden.

—Jennifer Meux White

Research at the Garden

The Garden recently provided research materials to these individuals:

Ms. Eden Abram, dissertation student with Prof. **Donald Kaplan**, UCB Dept. of Plant Biology launched her study of comparative morphology of succulent, drought-tolerant plants. She will be using the desert collections for illustration purposes.

Prof. David D. Ackerly, Stanford University, again visited to collect many species in the Rhamnaceae (buckthorn family). He is looking at the evolution of the "evergreen sclerophyll" strategy in California chaparral. The project is to examine each of the major taxa in comparison with their close relatives from non-chaparral habitats, employing a phylogenetic approach where possible.

Dr. Stephen Burgess, post-doc, UCB Dept. of Environmental Science, Policy, and Management, used the Mather Grove for an investigation of the basic physiological ecology of redwoods with the aim of relating climatic and hydrological factors with the growth and distribution of *Sequoia sempervirens* (Coast Redwood). They are particularly interested in quantifying direct foliar absorption of fog water by redwoods and determining its role in mitigating drought and allowing redwoods to grow to extreme heights. This study will principally involve the use of sensitive xylem sap flow meters to gauge patterns and amounts of water transport in branches and stems of redwoods.

Prof. Todd Dawson's class, Physiological Plant Ecology, used several Garden plants for measurements of photosynthesis under sun and shade conditions during the Spring Semester.

Prof. James Eckenwalder, University of Toronto, received leaf bases of *Zamia integrifolia*. These were plants used by Dr. Robert Ornduff for a study published in 1996: Gender performance in a cultivated cohort of the cycad *Zamia integrifolia* (Zamiaceae). *Amer. J. Bot.* 83: 1006-1015.

Mr. Taylor Field, dissertation student at Harvard, visited to take cuttings of primitive angiosperms for his project (*Chloranthus*, *Illicium mexicanum*, *Illicium simonsii*, *Schisandra henryi*).



Ms. Ruth Kirkpatrick, dissertation student with Prof. **Brent Mishler**, UCB Dept. of Integrative Biology, received fronds of several xerophytic ferns for a course project on desiccation tolerance.

Ms. Nancy Kiang, dissertation student with Prof. **Dennis Baldocchi**, UCB Dept. of Environmental Science, Policy, and Management, tested a sap flow sensor on a Garden oak for several weeks prior to using it in the field.

Ms. Jessica Messmer McAbee, graduate student at UC Davis with Prof. **Charles Gasser**, visited to obtain cuttings of *Impatiens hookeriana* and *Impatiens balsamina* for her graduate studies in ovule diversification in the angiosperms.

Dr. Susana Magallon, UC Davis, post-doc with Profs. **Michael Sanderson** and **James Doyle**, received a wide range of species for their study of seed plant phylogeny, the age of angiosperms, and the evolution of pentamery among basal eudicots.

Ms. Jodi McGraw, dissertation student with Prof. **Wayne Sousa**, in Integrative Biology completed her soil seed bank study in the Garden's research greenhouse.

Prof. Rei Rasmussen, Oregon Graduate Institute in Beaverton, Oregon, visited the Garden to collect emissions from several oak species for his study on terpene release by oaks.

Mr. Andrew Salywon, dissertation student at Arizona State University, is working on the molecular systematics of the Myrtaceae family. He received cuttings of *Eugenia capuli*, *Austromyrtus dulcis*, *Myrciogenous chrysocarpa*, *Syzygium jambos*, and *Ugni moliniae*.

Ms. Caroline Stromberg, dissertation student at UC Berkeley, Department of Integrative Biology, received dozens of specimens and associated herbarium vouchers for development of a phytolith reference collection.

Dr. Nori Yoshikawa, a post-doc at the University of Washington in Seattle, visited to collect *Hibbertia scandens*, *Dillenia*, and *Aextoxicum punctatum*. His main object is to find where in the phylogeny of angiosperms particular genes (the RPB2) are duplicated.

—Holly Forbes

Recognition

Contributions received from 2/01/2001 up to and including 4/15/2001.

New Members

The Garden wishes to thank our new Individual and Family Members:

Ms. Shellie Albright & Mr. Scott Emmett
 Mrs. Monica Baldzikowski
 Ms. Marge W. Barry
 Mrs. Wendy S. Bergman & Mr. Robert G. Bergman
 Ms. Barbara Boster
 Ms. Suzanne M. Briley
 Ms. Michaela Brockstedt
 Dr. and Mrs. Daniel Callahan
 Ms. Dwyn Daniels Robbie
 Mr. and Mrs. Randy Davis
 Mrs. Lois De Domenico
 Mr. Bob Deloria
 Ms. Carmel Drudy
 Ms. Anna Eastwood
 Ms. J. M. B. Edwards
 Dr. and Mrs. Ray Ergas
 Mr. Raymond Ford
 Mr. Sam Foushee
 Ms. Gloria Galindo
 Ms. Judith E. Garvens
 Mr. Kent N. Garvens
 Mr. Patrick Gavin Duffy
 Ms. Penelope E. Gordon
 Ms. Anna Greenwood
 Ms. Alix Greenwood
 Ms. Jeane Hamilton-Lucky
 Mr. and Mrs. Alan Hoben
 Ms. Lynne Hosley
 Mr. and Mrs. David Huang
 Ms. Laura J. Kainik
 Ms. Gretchen Kell
 Ms. Sydney Kustu
 Ms. Marie C. Lagarde
 Ms. A. Lim & Mr. K. Henderson
 Ms. Kiamara Ludwig
 Ms. Caren Maghreblian
 Ms. Pradeep & Mr. Karek Mathew
 Ms. Helen McKinley
 Mrs. Laura Miller & Mr. Dave Miller
 Mr. Charles L. Moreau
 Ms. Alexandra Moss
 Ms. Phyllis Peacock
 Ms. Phyllis Potter & Ms. Nora Underwood
 Ms. Delaine Renard & Mr. Bruce Bedortha
 Ms. Janet A. Rudolph
 Ms. Jeanine Sidran
 Mr. Steve Sivier
 Ms. Jean Smith
 Ms. Laura Sueoka
 Ms. Anita L. Thomas
 Mr. Dan Viera
 Ms. Virginia C. von Colditz

Mr. Whitney Vosburgh

Ms. Herta Weinstein
 Ms. Karen Wesson
 Ms. Charlotte Woody

Ms. Elenor Mulkey

Ms. Mildred J. O'Connor
 Ms. Jean Portello
 Ms. Jacqueline Woodfill & Mr. John Woodfill
(Myrtle Wolf Library)

James Harrold Van Sicklen from:

Mr. and Mrs. Richard Amundsen
 Mr. and Mrs. Bill Bade
(Entrance Improvement)
 Mr. Michael Gilmore & Family
 Mr. Bruce Hayes
 Mr. & Mrs. R. Sheldon Milligan, Jr.
 Mr. John P. Stock

Grateful Thanks

The Garden thanks these new members for their substantial gifts over and above membership:

Ms. Patti Barker
 Mr. and Mrs. David Benning
 Ms. Beth Bonside
 Mr. and Mrs. Ronald Clendenen
 Mr. and Mrs. Fred Dengler
 Mr. and Mrs. Jack Dolhinow
 Dr. and Mrs. A. Carl Helmholz
 Ms. Fonda Kareliti
 Mr. and Mrs. Ron Lai
 Mr. Jim Lovekin & Prof. Iris Tommelein
 Mr. and Mrs. Geoff Machin
 Mr. and Mrs. Stuart McDonald
 Mr. Bill McJohn
 Mr. Ron Morrison
 Ms. Sally O'Connell
 Ms. Ann Reynolds
 Mr. and Mrs. Weldon Rucker
 Mr. Bernard Taper & Ms. Gwen Head
 Ms. Carol Thompson & Mr. Roderic Duncan
 Mr. and Mrs. William D. Watkins
 Mr. Stewart Winchester
 Mr. Thomas (Rex) Wolf

Gifts In Kind

The Garden offers appreciation and thanks for gifts in kind:

Ms. B. Sonja Altena
 Ms. Mary Lynn Cox
 Ms. Louise Dutton
 Mrs. Myrtle Wolf

In Appreciation

The Garden offers appreciation and thanks to these donors for their generous contributions:

Mr. and Mrs. Earl Hamlin
 Dr. and Mrs. A. Carl Helmholz
 Mr. Bernard Taper & Ms. Gwen Head
 Mr. Stewart Winchester
(Ornduff Fund for Garden Interpretation & Docent Activities)

In Memory

The Garden offers appreciation and thanks for gifts from these donors in memory of:

Shih Ning Chern from:
 Mr. & Mrs. Kenneth Palladino
(Chinese Medicinal Herb Garden)
 Jean & Earl Hyde from:
 Mr. and Mrs. Harry Heckman
(Myrtle Wolf Library)
 Josephine Tong Larson from:
 Mr. and Mrs. Bill Bade
(Myrtle Wolf Library)
 Ms. Ellen Felker

WISHLIST

The Garden particularly thanks Dr. and Mrs. David Reiffel for their contributions of a sofa and a projector for the new Center for the Study of Plant Conservation.

This issue we are asking our readers if they could support us by donating:

- A "point and shoot" camera
- Card tables

If you can donate, please call (510) 643-2937—we would appreciate the help.



Pictured after receiving their awards from the Director at the recent ceremony are: (Back, left to right) John Domzalski, Judith Finn, Jerry Parsons, Peter Klement, Gerald Ford. (Front, left to right) Elaine Sedlack, Nancy Swarengen, Holly Forbes and Dr. Ellen Simms, Garden Director.

Staff Members Honored

Various members of the Garden staff were recently recognized and applauded for their many years of service. Director Ellen Simms commented that the Garden is the envy of many campus units for the longevity of its staff! University service award pins were given to **Holly Forbes, Gerald Ford, Jerry Parsons and Nancy Swarengen** for 10+ years of service; to **Elaine Sedlack** for 15+ years; to **Peter Klement and Roger Raiche** for 20+; and to **John Domzalski** for 25. Judith Finn had already received her 25-year pin! Congratulations to all you long-timers!

GARDEN STAFF

Dr. Ellen Simms, *Garden Director*

ADMINISTRATION

Afroz Navid, *Administrative Assistant*

Margaret Richardson, *Tours & Rentals Coordinator*

Michael Rimar, *Administrative Assistant*

Candice Schott, *Business Operations Supervisor*

Nancy Swarengen, *Volunteer Services Coordinator*

Janet Williams, *Marketing & Development Officer*

Leslie Wozniak, *Visitor Services Specialist*

COLLECTIONS & HORTICULTURE

Dr. Christopher Carmichael,
Manager of Collections and Horticulture

Holly Forbes, *Curator*

Barbara Keller, *Curatorial Assistant*

Anthony Garza,

Supervisor of Horticulture and Grounds

John Domzalski, *Propagator*

Judith Finn, *Horticulturist*

Peter Klement, *Horticulturist*

Lawrence Lee, *Horticulturist*

Jerry Parsons, *Horticulturist*

Dr. Robert Raabe, *Garden Pathologist*

Roger Raiche, *Horticulturist*

Eric Schulz, *Horticulturist*

Elaine Sedlack, *Horticulturist*

Nathan Smith, *Horticulturist*

Gerald Ford, *Building and Grounds Maintenance*

EDUCATION

Dr. Jennifer White, *Associate Director for Education*
Christine Manoux, *Program Assistant*

FACULTY ADVISORY COMMITTEE

Dr. Nan Crystal Arens, *Integrative Biology*

Dr. Lewis Feldman, *Plant Biology*

Dr. Joe McBride, *Environmental Science, Policy, & Management*

Dr. Brent Mishler, *Integrative Biology*

Dr. Vincent Resh, *Environmental Science, Policy, & Management*

Dr. Alan Smith, *Herbarium*

NEWSLETTER

Janet Williams, *Editor*

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Development 643-2937

Director's Office 643-8999

Education 495-2805

Entrance Kiosk 643-2755

The Garden Shop 642-3343

Plant Collections 643-8040

Tours/Rentals 642-3352

Volunteers 643-1924

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Noteworthy Donations...

The Garden Library received several donations of books and journals. Mrs. Mary Lynn Cox donated over 130 books on garden design, horticulture, and botanical subjects. Mrs. Myrtle Wolf, donated a complete run of *Pacific Horticulture Magazine*, many issues of the *Journal of the California Horticultural Society*, several volumes of the *Bulletin* of the American Rock Garden Society, the early issues of *The Four Seasons* (journal of the Regional Parks Botanic Garden), and *Fremontia* (journal of the California Native Plant Society), among others. Additional donations of books for the library were made by Mrs. Sonja Altena and Ms. Louise Dutton. Thank you very much indeed!

CALENDAR OF EVENTS

TREES AND SHRUBS OF CALIFORNIA

We are pleased to help launch a new book from University of California Press, Trees and Shrubs of California by two distinguished faculty members from Humboldt State University, John Stuart, Professor of Forestry and John Stewart, Professor of Botany. Both authors will be with us, to share highlights of their research, and to sign copies of their book. Also on hand will be their illustrator, Andrea Pickart, exhibiting samples of her work.

Wednesday June 13, 7:30 pm

Free

Registration requested

TWILIGHT TOURS

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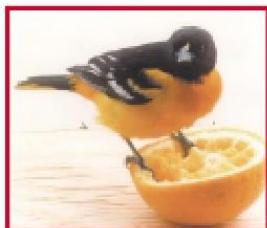
35002-f0273688_Newsletter_Win_2001_q.pdf Page 12

The Porter County
Birding Guide





Rose-breasted Grosbeak



Baltimore Oriole



Morning Doves

Welcome to the Casual Coast, along the southern shore of Lake Michigan. Home to the Indiana Dunes National Lakeshore, the Indiana Dunes State Park and the most diversified flora and fauna in the Midwest, the dunes are complemented by several nearby inland nature preserves. Together, they provide a unique haven for birds and birders that will make your stay on the Casual Coast both enjoyable and memorable.

TABLE OF CONTENTS

<i>BIRD MIGRATION TO THE DUNES</i>	<i>1</i>
<i>WEATHER EFFECTS OF BIRDING.....</i>	<i>2</i>
<i>RAPTOR FLIGHTS</i>	<i>2</i>
<i>BIRDING SITES</i>	<i>3-5</i>
<i>ACCOMMODATIONS CHART</i>	<i>6</i>
<i>PORTER COUNTY MAP</i>	<i>7</i>
<i>WELCOME TO BIRDING</i>	<i>12</i>
<i>PORTER COUNTY BIRDERS CHECKLIST</i>	<i>13-19</i>
<i>ACKNOWLEDGEMENTS</i>	<i>20</i>
<i>BIBLIOGRAPHY</i>	<i>20</i>

Photography provided by David Oberst



BIRD MIGRATION TO THE DUNES

Without doubt the presence of Lake Michigan affects the movement and distribution of birdlife in the Dunes more than any other single factor. The shores of this enormous lake provide leading lines that control flight paths of numerous migrants, and the vast open waters draw legions of transitory and wintering birds. During autumn the elongate north-south boundaries of the lake become airways along which thousands of migrants navigate toward wintering areas. Southbound birds following the shores are ultimately guided into the Dunes Area, at the toe of the lake. This avian convergence at the bottom of Lake Michigan is termed the *funneling effect*. The funneling effect explains the unusually high diversity of autumn birds in northwest Indiana.



"Lake Michigan also provides two important avian habitats that are otherwise quite rare in the Midwest: the deep lake and the beach. Waters of the lake attract large numbers of bay and sea ducks, many of which are virtually unrecorded at inland sites in the Midwest. Additionally, the lake attracts a number of rare periodic transients, including the Purple Sandpiper, Red Phalarope, Pomarine Jaeger, Parasitic Jaeger, Great Black-backed Gull, Glaucous Gull, Iceland Gull, Thayer's Gull, Sabine's Gull, Little Gull, Black-legged Kittiwake. Extensive beaches provide resting and feeding areas for shorebirds, especially those species preferring sand rather than mudflats, e.g., Sanderling, Red Knot, and Baird's Sandpiper.

"The deep waters of Lake Michigan also constitute a significant obstacle to migrants. During nocturnal flights many north-bound passerines overfly land's end and daybreak finds them over the lake. When landfall is visible, they often fly directly to the shore, where they immediately land for rest and feeding.

This effect generates an anomalously high concentration of passersines in parks and woodlands immediately adjacent to the lake" (Brock 5).



WEATHER EFFECTS OF BIRDING

That most migrants fly during fair weather when trailing winds are available is well documented in ornithology textbooks. Along the shores of southern Lake Michigan this principle is most clearly evident during the fall. Bennett (1952) discovered that the number of fall passerine migrants along the Chicago lakefront tripled (compared to numbers on the day immediately prior to frontal passage) on the days immediately following passage of cold fronts.



Common Loon

Photo by: David Oberst

"Similarly, the most exciting autumn birding in the Dunes occurs during or immediately following the passage of cold fronts. In addition to the passerine waves that follow the fronts, northerly winds stimulate a general longshore movement of water birds.

"On such occasions, an endless stream of loons, ducks, gulls, and terns often flows along the lakefront." (Brock 6).

RAPTOR FLIGHTS

Spring hawk flights along the High Dunes must be attributed to the presence of Lake Michigan. North-bound hawks, especially buteos, enjoy a leisurely spring migration, wafting effortlessly over the Midwest on balmy southerly winds. These soaring raptors, however, display a marked aversion to flying over large bodies of water. Consequently, upon encountering Lake Michigan the northward movement is abruptly truncated and the birds turn to a course paralleling the shoreline. Thus, the migrating hawks are concentrated in a belt immediately adjacent to the lake. In effect, therefore, the High Dunes rest directly below a narrow flight corridor that extends along the lake's southern margin." (Brock 8).



Cooper's Hawk

Photo by: David Oberst

During March and April, the major flight months, good daily flights can consist of 100 to 300 birds. Fall flights are limited; the most notable species observed is the Peregrine Falcon, with flight peaks in early October.



BIRDING SITES

BEVERLY SHORES A

Whether you drive or walk, Beverly Shores will produce a number of species, seen or heard, that will delight the birder. This "island" in the National Lakeshore supports habitats such as an interdunal marsh, lake, beach and wooded dune. The interdunal marsh offers excellent habitat for passerines as well as nesting species. Beverly Drive produces many opportunities to see and hear several species of birds. Best observation time is all year.

Types of migration birds seen are loons, waterfowl and gulls. Birds seen and heard in late spring and summer are Willow Flycatcher and warblers.

COFFEE CREEK WATERSHED PRESERVE B

The preserve is a 167-acre home to over 500 native plants, trees, sedges and forbs as well as over 4 miles of trails. Wetlands can be found throughout the landscape including swamps, marshes, wet prairies and fens. Birds commonly seen at Coffee Creek include several species of woodpeckers such as the Red-bellied woodpecker, Downy and Hairy Woodpeckers. Herons, hawks, and wood ducks, as well as the state endangered marsh wren can be seen in their respective habitats throughout the preserve. Bridge 5, near the southern end of the corridor is a great place to see Cardinals, Indigo Bunting and the Tufted Titmouse. From the Water Plaza, at the northern area of the preserve, Belted Kingfishers can be seen fluttering near the wetlands. Don't miss the Killdeer who often nests near Phillips Pond.



Photo by: J.F. New & Associates



COWLES BOG C

Wooded edges, savannah, marshes and wooded swamp provide ideal habitats for Common Yellowthroat, Sora, Virginia Rail, American Woodcock, Swamp Sparrow, warblers, and wren. Named after the Father of Plant Succession, Professor Henry Cowles, this area is perfect for the nature lover in general. For more information call 219/926-7561 ext. 225.



BIRDING SITES

PORTER BEACH HAWK WATCH D

Formerly known as the Johnson Beach hawk watch, this stabilized dune allows prime viewing of several hawk flights, especially in the spring.

WEST BEACH & LONG LAKE E

Following the West Beach trails which take you by the beach, an interdunal pond, and wooded dune, one may discover a Hairy Woodpecker or two and perhaps a Common Yellowthroat. Long Lake may grace one with the presence of Least Bitterns, warblers and scores of waterfowl. A parking fee is required in the summer.

INDIANA DUNES STATE PARK F

Indiana Dunes State Park encompasses a variety of habitats: climax forest, savannah, marram grass covered dunes, blowouts, beaches and marshes. Several trails run through these areas, providing opportunities to view and hear field sparrows, flycatchers, thrushes, warblers, hawks, owls and more. Optimal observation areas would include the forest and the marsh-wood boundary along with trails 2 and 10. Trail 9 allows for eye level bird watching because of its higher elevation. Wilson Shelter also attracts several birds during spring migration. Entrance fee.



Photo by: Wendy Smith

PORT OF INDIANA G

During winter one can best observe the Horned Larks, Lapland Longspurs, Snow Buntings, Common Mergansers and bay ducks from the public access area of the Port of Indiana. On windy days, birds fly almost directly over the public access area.

SUNSET HILL FARM COUNTY PARK H

Porter County's ongoing commitment to ecological restoration, this former 235-acre dairy farm is filled with woods, meadows, and three ponds. Part-time naturalists are available during three seasons of the year to offer a wide range of opportunities including: natural science projects on ponds, trees, birds, wildflowers or fields. With over ten miles of trails, bird watchers, nature photographers, or woods walk observers can enjoy endless outdoor opportunities. Birds commonly seen at Sunset Hill Farm include: field sparrows, flycatchers, thrushes, warblers, hawks, owls, ducks, geese and more.



Photo by: Wayne Wadipple



BIRDING SITES

TALTREE ARBORETUM & GARDENS I

Taltree Arboretum & Gardens offers the birder a wide variety of habitats to explore. Prairie, Savanna, Woods, Wooded Edges, Swamp, Pond and open Wetland can all be easily observed at this 300+ acre site. With over 4 miles of trail, Taltree is a special place to bird. For more information on special birding opportunities visit them at www.taltree.org. Entrance fee. (Closed Mondays)



Photo by David Oberst

ROGERS LAKWOOD PARK J

A 122-acre facility of the Valparaiso Park Department, it is home to hiking trails, a beach, fishing, boating, and swimming. Birds commonly seen at Rogers-Lakewood Park include: native waterfowl such as Canada geese and mallard ducks, herons, hawks, and common songbirds. Daily entry fees are collected from Memorial Day through Labor Day and are charged by the carload.

JASPER-PULASKI FISH AND WILDLIFE AREA K

The Jasper-Pulaski Fish and Wildlife Area has long been the sight of the annual migration of Sandhill Cranes. View this awesome spectacle during the fall to see thousands of these birds as they rest from their journey and feed. Springtime also brings the cranes, but in a lesser amount. Don't forget the binoculars or a scope! During the spring and summer, the area boasts ducks, geese, and egrets that are viewable from the observation trail. Jasper-Pulaski Fish and Wildlife Area is also a public hunting area. Please check in at the headquarters to obtain information about the affected areas before setting out.

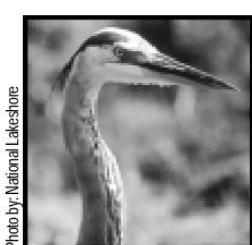


Photo by National Lakeshore

HERON ROOKERY L

Observe the Great Blue Heron in the spring and summer at this mature woodland located along the Little Calumet River. Migrant warblers are present in the spring along the channel among other species.



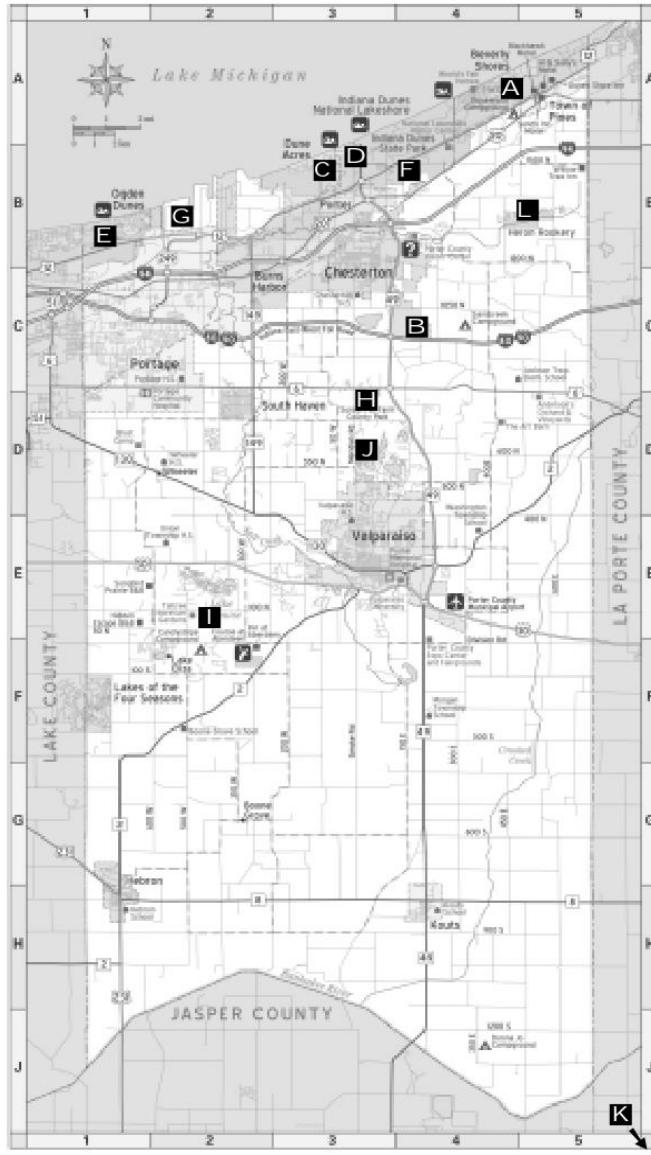
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		Chesterthon	
\$	Econo Lodge State Road 49 and Indian Boundary Road	219/929-4416 or 800-55-ECONO	
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\$	Castaway Motel State Road 249 and U.S. Highway 20	219/762-4633	
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\$	Dollar Inn State Road 249 and U.S. Highway 20	219/763-6601	
\$	Don's Motel State Road 249 and U.S. Highway 20	219/762-3317	
\$\$\$	Hampton Inn State Road 249 and U.S. Highway 20	219/764-1919 or 800-HAMPTON	
\$\$\$	Holiday Inn Express State Road 249 and I-80/90	219/762-7777 or 800-HOLIDAY	
\$\$	Ramada Inn State Road 249 and U.S. Highway 20	219/762-5546 or 800-437-5145	
\$\$	Super 8 Motel State Road 249 and U.S. Highway 20	219/762-8857 or 800-800-8000	
\$\$\$	Spring House Inn U.S. Highway 20 and Mineral Springs Road	219/929-4600 or 800-DUNES-00	
\$\$	Al & Sally's Motel U.S. Highway 12	219/872-9131	
\$\$	Blackhawk Motel U.S. Highway 12	219/872-8656 or 800-908-8656	
\$	Sands Inn Motel U.S. Highway 20 and State Road 520	219/872-0717	
\$\$\$\$	Courtyard by Marriott State Road 49 and U.S. Highway 30	219/465-1700 or 800-321-2211	
\$\$\$	Fairfield Inn State Road 49 and U.S. Highway 30	219/465-6225 or 800-228-2800	
\$\$\$\$	Hampton Inn & Suites State Road 49 and U.S. Highway 30	219/531-6424 or 800-HAMPTON	
\$\$\$	Holiday Inn Express U.S. Highway 30 and State Road 2	219/464-8555 or 800-HOLIDAY	
\$\$	Super 8 Motel State Road 49 and State Road 2	219/464-9840 or 800-800-8000	
\$	Valparaiso Motel U.S. Highway 30 and State Road 2	219/462-2752	
\$\$	Dunes Shore Inn U.S. Highway 12, Beverly Shores	219/879-9029	
\$\$\$\$	Gray Goose Inn State Road 49 and Indian Boundary Road, Chesterton	219/926-5781	
\$\$\$\$	Hidden Escape County Road 50 North, Valparaiso/Wheeler	219/759-4701	
\$\$\$\$	The Inn at Aberdeen State Road 2, Valparaiso/Boone Grove	219/465-3753	
\$\$\$\$	Songbird Prairie County Road 600 West, Valparaiso/Wheeler	219/759-4274 or 877-SONGBRD	
\$\$\$	Willow Tree Inn County Road 1500 North, The Pines	219/879-6790	
\$17+	Candystripe Campground Division Road, Valparaiso/Lake Eliza	219/462-0784	
\$19+	Donna Jo Campground County Road 350 East, Kouts	219/766-2186	
\$10+	Dunewood Campground U.S. Highway 12, Indiana Dunes National Lakeshore, Beverly Shores	219/926-7561 or 800-959-9174	
\$17+	Sand Creek Campground County Road 350 East, Chesterton	219/926-7482	
\$7+	State Park Campground State Road 49, Indiana Dunes State Park, Chesterton	219/926-4520	
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PORTER COUNTY MAP



Porter County
2010-2011

- | | |
|-------------------------------------|---|
| A - Beverly Shores | G - Port of Indiana |
| B - Coffee Creek Watershed Preserve | H - Sunset Hill Farm County Park |
| C - Cowles Bog | I - Taltree Arboretum & Gardens |
| D - Porter Beach | J - Rogers Lakewood Park |
| E - West Beach | K - Jasper-Pulaski Fish & Wildlife Area |
| F - Indiana Dunes State Park | L - Heron Rookery |

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WELCOME TO BIRDING

WELCOME TO THE WONDERFUL WORLD OF BIRDING!

If you like watching birds in your backyard or you want to travel the world to see all 10,000 bird species, use these ten tips to get started! You might also want to visit WildBirds.com, a great site for newer birders!



Hint #1: You need a field guide for your area. A field guide is a book with pictures of the birds and tips for identifying them.

Hint #2: You need a binocular to see the birds. (Hint: you'd need four eyes to use binoculars.)

Hint #3: You need to know what to expect in your area. Checklists of birds in your area will tell you this. See pages 13-19 for the Porter County Bird Checklist.

Hint #4: You need to be able to find the birds. To do this, you should learn about the habitat each species of bird prefers. See page 13 for Habitat information and the Bird Checklist for where to spot each species.

Hint #5: Join a group of other birders. Birders are very friendly and helpful. They are always willing to share their knowledge. We were all beginners once.

Hint #6: Try a birding trip or tour. Local bird trips are sometimes advertised in the newspapers. Check out the Birding Sites information on pages 3-5 for information on local bird treks.

Hint #7: Read about birds. There are many good magazines about birds and birding. For North American birds: *Birder's World*, *Bird Watcher's Digest*, *Birding* and *WildBird* are magazines you might like.

Hint #8: Bring the birds to you. You can attract birds to your yard with just a little work. Planting the right flowers will attract hummingbirds. Sunflower seeds will bring lots of new birds to your house. You might even want to build a bluebird house.

Hint #9: Record your bird sightings. You might want to keep a "diary" or list of the birds you see in your yard. You can also keep a list of birds you see in your town or on your vacation. Birders often keep lists for their county, state or country. The Porter County Bird Checklist can be found in this guide on pages ...

**Hint #10: HAVE FUN. ASK LOTS OF QUESTIONS.
BE KIND TO BIRDS.**

These hints are from the popular birding website - BIRDING.COM



PORTER COUNTY BIRDERS CHECKLIST

SEASONAL ABUNDANCE CODES:

A = ABUNDANT: Often observed and widespread throughout county

C = COMMON: Frequent in appropriate habitat

U = UNCOMMON: Infrequent in appropriate habitat

R = RARE: Unlikely, but possible in county

HABITAT TYPES & LOCATIONS

L-LAKE; B-BEACH: Lake Michigan and its beachfront including:

Beverly Shores, Indiana Dunes State Park, Indiana Dunes National Lakeshore

D-DUNES: Indiana Dunes State Park, Indiana Dunes National Lakeshore

F-FIELDS: Cultivated and roadside fields, open areas and prairies such as those found at Taltree Arboretum & Gardens, Indiana Dunes National Lakeshore, Sunset Hill Farm County Park and Coffee Creek Watershed Preserve

FL-FLIGHT: Observed in flight

M-MARSH: Areas regularly inundated by shallow water for much of the year: Interdunal marshes are found along Lake Michigan at Beverly Shores, Indiana Dunes National Lakeshore & Indiana Dunes State Park. Marshes are also found along county rivers, the most notable being the Kankakee River at the southern border of the county and at Kankakee Fish & Wildlife Area in neighboring Starke County

P-PONDS: Permanent bodies of water that include small lakes, ponds and wetlands: Long Lake, Taltree Arboretum & Gardens, Rogers Lakewood Park, Coffee Creek Watershed Preserve, Sunset Hill Farm County Park and Indiana Dunes National Lakeshore

S-SWAMPS: Wetlands that are poorly drained with trees growing throughout. There are numerous types of swamps in the county and they can be found at: Indiana Dunes State Park, Indiana Dunes National Lakeshore, Beverly Shores (along Beverly Drive), Coffee Creek Watershed Preserve, Taltree Arboretum & Gardens and the Kankakee River Floodplain

W-WOODS: Beverly Shores, Indiana Dunes National Lakeshore, Sunset Hill Farm County Park, Taltree Arboretum & Gardens, Indiana Dunes State Park, Coffee Creek Watershed Preserve

WE-WOODED EDGES: Coffee Creek Watershed Preserve, Taltree Arboretum & Gardens, Sunset Hill Farm County Park, Indiana Dunes National Lakeshore, and Indiana Dunes State Park

U-URBAN: Urban areas throughout the county



PORTER COUNTY BIRDERS CHECKLIST

Bird	Seasons					Habitat
	SP	S	F	W		
Loon & Grebes						
<input type="checkbox"/> Common Loon	C	R	C	R	L	
<input type="checkbox"/> Pied-billed Grebe	C	C	C	R	M,P	
<input type="checkbox"/> Horned Grebe	U		C	R	L,H	
Cormorants						
<input type="checkbox"/> Double-crested Cormorant	C	U	C	R	L	
Bitterns & Herons						
<input type="checkbox"/> American Bittern*	U	U	U	R	M	
<input type="checkbox"/> Least Bittern*	R	R	R		M	
<input type="checkbox"/> Great Blue Heron	A	A	A	R	M,P	
<input type="checkbox"/> Great Egret	C	U	C	R	M	
<input type="checkbox"/> Green Heron	C	C	C		M,P	
<input type="checkbox"/> Black-crowned* Night Heron	U	U	U		M	
<input type="checkbox"/> Yellow-crowned* Night Heron	U	U	U		M	
Swans, Geese & Ducks						
<input type="checkbox"/> Mute Swan	C	C	C	C	L,P	
<input type="checkbox"/> Tundra Swan	U		U	R	L	
<input type="checkbox"/> Canada Goose	A	A	A	A	L,M,P	
<input type="checkbox"/> Wood Duck	A	A	C	R	P,S	
<input type="checkbox"/> Green-winged Teal	C	R	U	R	M,P	
<input type="checkbox"/> Black Duck	C	R	C	U	L,M	
<input type="checkbox"/> Mallard	A	A	A	C	L,P,M,	
<input type="checkbox"/> Northern Pintail	U	R	U	R	M,P	
<input type="checkbox"/> Blue-winged Teal	C	U	C	R	M,P	
<input type="checkbox"/> Northern Shoveler	C	R	U	R	M,P	
<input type="checkbox"/> Gadwall	C	R	C	R	M,P	
<input type="checkbox"/> American Wigeon	C	R	C	R	M,P	
<input type="checkbox"/> Canvasback	U	R	R	U	M,P	
<input type="checkbox"/> Redhead	C	R	U	R	L,P	
<input type="checkbox"/> Ring-necked Duck	C	R	C	R	M,P	
<input type="checkbox"/> Greater Scaup	U	R	U	U	L,P	
<input type="checkbox"/> Lesser Scaup	C	R	C	U	L,P	
<input type="checkbox"/> Black Scoter	R	R	U	R	L	
<input type="checkbox"/> White-winged Scoter	R	R	U	R	L	
<input type="checkbox"/> Common Goldeneye	C	R	C	A	L	
<input type="checkbox"/> Bufflehead	C	R	C	A	L	
<input type="checkbox"/> Hooded Merganser	U	R	U	R	L	
<input type="checkbox"/> Common Merganser	U	R	U	C	L	
<input type="checkbox"/> Red-breasted Merganser	C	R	C	U	L,P	
<input type="checkbox"/> Ruddy Duck	C	R	U	R	L,P	
Vultures						
<input type="checkbox"/> Turkey Vulture	A	A	C	R	FL	
Eagles & Hawks						
<input type="checkbox"/> Bald Eagle*	U	R	R	R	FL	
<input type="checkbox"/> Northern Harrier*	U	R	U	R	F	
<input type="checkbox"/> Sharp-shinned Hawk	C	C	C	C	WE,W	
<input type="checkbox"/> Cooper's Hawk	C	C	C	C	WE,W	
<input type="checkbox"/> Northern Goshawk	R	R	R	R	W	
<input type="checkbox"/> Red-shouldered Hawk	U	R	U	R	WE	
<input type="checkbox"/> Broad-winged Hawk	U	U	U	U	W	

* State endangered

14



PORTER COUNTY BIRDERS CHECKLIST

Bird	Seasons					Habitat
	SP	S	F	W		
<input type="checkbox"/> Red-tailed Hawk	C	C	C	C		F,WE
<input type="checkbox"/> Rough-legged Hawk	U	U	U	U		F,M
Osprey & Falcons						
<input type="checkbox"/> Osprey*	U	R	U	R		L
<input type="checkbox"/> American Kestrel	C	C	C	C		F
<input type="checkbox"/> Peregrine Falcon*	U	U	U	U		FL
Quail, Pheasant, Turkey						
<input type="checkbox"/> Northern Bobwhite	U	U	U	U		F,WE
<input type="checkbox"/> Ring-necked Pheasant	U	U	U	U		F
<input type="checkbox"/> Wild Turkey	U	U	U	U		F,W
Rails & Coots						
<input type="checkbox"/> Virginia Rail*	U	U	U	U		M
<input type="checkbox"/> Sora Rail	C	U	U	U		M
<input type="checkbox"/> Common Moorhen	R	R	R	U		M
<input type="checkbox"/> American Coot	A	A	A	U		M,P,L
Crane						
<input type="checkbox"/> Sandhill Crane (Jasper-Pulaski Site)	C	U	C	U		F,M
Plovers						
<input type="checkbox"/> Black-bellied Plover	U	R	U			B,P
<input type="checkbox"/> American Golden Plover	C	R	U			B,P
<input type="checkbox"/> Semipalmated Plover	U	R	U			B,P
<input type="checkbox"/> Piping Plover*	R	R				B
<input type="checkbox"/> Killdeer	A	A	C	R		M,D,F
Sandpipers & other Shorebirds						
<input type="checkbox"/> Greater Yellowlegs	U	R	R			M,P
<input type="checkbox"/> Lesser Yellowlegs	U	U	U			M,P
<input type="checkbox"/> Solitary Sandpiper	C	U	U			M
<input type="checkbox"/> Spotted Sandpiper	C	C	U			M,S
<input type="checkbox"/> Semipalmated Sandpiper	U	R	C			B,P
<input type="checkbox"/> Least Sandpiper	U	U	U			B,P
<input type="checkbox"/> Pectoral Sandpiper	C	R	U			M,P
<input type="checkbox"/> Baird's Sandpiper		R	U			B
<input type="checkbox"/> Ruddy Turnstone	U	R	U			B
<input type="checkbox"/> Sanderling	R	C	C			B
<input type="checkbox"/> Dunlin	U	R	U			B,P
<input type="checkbox"/> Red Knot	R		R			B
<input type="checkbox"/> Purple Sandpiper	R		R			B
<input type="checkbox"/> Short-billed Dowitcher	R	R	R			P
<input type="checkbox"/> Red Phalarope			U			L,B
<input type="checkbox"/> Common Snipe	U	R	U	R		M,P
<input type="checkbox"/> American Woodcock	C	C	C	R		S,W
Jaegers						
<input type="checkbox"/> Parasitic Jaeger			U			L,B
<input type="checkbox"/> Pomarine Jaeger			R			L,B
Gulls						
<input type="checkbox"/> Little Gull	R	R	U	R		L
<input type="checkbox"/> Bonaparte's Gull	C	R	C	U		L,B
<input type="checkbox"/> Laughing Gull	U	R	R	R		L
<input type="checkbox"/> Ring-billed Gull	A	C	A	C		L,B

* State endangered

15



PORTER COUNTY BIRDERS CHECKLIST

Bird	Seasons				Habitat
	SP	S	F	W	
<input type="checkbox"/> Herring Gull	A	U	A	A	L,B
<input type="checkbox"/> Thayer's Gull	R		R	U	L,B
<input type="checkbox"/> Iceland Gull	U		R	R	L
<input type="checkbox"/> Glaucous Gull	R		R	U	L,B
<input type="checkbox"/> Great Black-backed Gull	U	R	R	U	L
<input type="checkbox"/> Sabine's Gull		U	R		L
<input type="checkbox"/> Black-legged Kittiwake	R	R	U	R	L
Terns					
<input type="checkbox"/> Caspian Tern	C	U	R	R	L,B
<input type="checkbox"/> Common Tern	C	R	U		L,B
<input type="checkbox"/> Forster's Tern	U	R	U		L,B
<input type="checkbox"/> Black Tern*	R	U	R		M,B
Doves					
<input type="checkbox"/> Rock Dove	C	C	C	C	U
<input type="checkbox"/> Mourning Dove	A	A	A	A	F,W
Cuckoos					
<input type="checkbox"/> Black-billed Cuckoo	U	U	U		WE
<input type="checkbox"/> Yellow-billed Cuckoo	U	U	U		WE
Owls					
<input type="checkbox"/> Short-eared Owl	R	R	R	U	F,M
<input type="checkbox"/> Great Horned Owl	C	C	C	C	W
<input type="checkbox"/> Snowy Owl			R	R	B
<input type="checkbox"/> Barred Owl	C	C	C	C	S
<input type="checkbox"/> Northern Saw-whet Owl	R			R	W
<input type="checkbox"/> Eastern Screech Owl	C	C	C	C	W
Goatsuckers					
<input type="checkbox"/> Common Nighthawk	C	A	C		WE,F
<input type="checkbox"/> Whip-poor-will	C	U	U		W
Swifts					
<input type="checkbox"/> Chimney Swift	A	A	A		U
Hummingbirds					
<input type="checkbox"/> Ruby-throated Hummingbird	C	C	C		F,WE
Kingfishers					
<input type="checkbox"/> Belted Kingfisher	C	C	C	R	M,P
Woodpeckers					
<input type="checkbox"/> Red-headed Woodpecker	C	C	C	C	W
<input type="checkbox"/> Red-bellied Woodpecker	C	C	C	C	W
<input type="checkbox"/> Yellow-bellied Sapsucker	C	R	U	R	W
<input type="checkbox"/> Downy Woodpecker	C	C	C	C	W,WE
<input type="checkbox"/> Hairy Woodpecker	U	U	U	U	W
<input type="checkbox"/> Northern Flicker	C	C	C	U	W
<input type="checkbox"/> Pileated Woodpecker	U	U	U	U	W

* State endangered



PORTER COUNTY BIRDERS CHECKLIST

Bird	Seasons				Habitat
	SP	S	F	W	
Flycatchers					
<input type="checkbox"/> Olive-sided Flycatcher	U	R	U		S
<input type="checkbox"/> Eastern Wood Pewee	C	C	C		W
<input type="checkbox"/> Yellow-bellied Flycatcher	U	R	R		W
<input type="checkbox"/> Acadian Flycatcher	C	C	R		W
<input type="checkbox"/> Alder Flycatcher	U	U	U		M
<input type="checkbox"/> Willow Flycatcher	C	U	R		M
<input type="checkbox"/> Least Flycatcher	C	R	C		W,WE
<input type="checkbox"/> Eastern Phoebe	C	C	U		F,W,WE
<input type="checkbox"/> Great-crested Flycatcher	C	C	U		W
<input type="checkbox"/> Eastern Kingbird	C	C	U		F,M
Larks					
<input type="checkbox"/> Horned Lark	C	U	U		F
Swallows					
<input type="checkbox"/> Purple Martin	C	C	C		F,P
<input type="checkbox"/> Tree Swallow	C	A	C		F,M
<input type="checkbox"/> Rough-winged Swallow	U	U	U		F,M
<input type="checkbox"/> Bank Swallow	C	C	C		B,D
<input type="checkbox"/> Cliff Swallow	R	R	R		F
<input type="checkbox"/> Barn Swallow	C	A	C		F
Jays & Crows					
<input type="checkbox"/> Blue Jay	A	A	A	A	W,WE
<input type="checkbox"/> American Crow	A	A	A	A	ALL
Titmice					
<input type="checkbox"/> Black-capped Chickadee	C	C	C	C	W
<input type="checkbox"/> Tufted Titmouse	C	C	C	C	W
Nuthatches					
<input type="checkbox"/> Red-breasted Nuthatch	U	R	U	U	W
<input type="checkbox"/> White-breasted Nuthatch	C	C	C	C	W
Creepers					
<input type="checkbox"/> Brown Creeper	C	R	C	U	W
Wrens					
<input type="checkbox"/> Carolina Wren	U	U	U	U	WE,U
<input type="checkbox"/> House Wren	C	C	C		WE,U
<input type="checkbox"/> Winter Wren	U	R	U	R	W
<input type="checkbox"/> Marsh Wren*	U	U	U		M
<input type="checkbox"/> Sedge Wren*	U	R	R		F,M
Old World Warblers, Thrushes & Allies					
<input type="checkbox"/> Golden-crowned Kinglet	C	R	C	R	W
<input type="checkbox"/> Ruby-crowned Kinglet	C	R	C	R	W
<input type="checkbox"/> Blue-gray Gnatcatcher	C	U	R		W
<input type="checkbox"/> Eastern Bluebird	C	C	C	U	F,WE
<input type="checkbox"/> Veery	U	U	U		W
<input type="checkbox"/> Gray-cheeked Thrush	U		U		W

* State endangered



PORTER COUNTY BIRDERS CHECKLIST

Bird	SP	Seasons			Habitat
		S	F	W	
<input type="checkbox"/> Swainson's Thrush	U		C		W
<input type="checkbox"/> Hermit Thrush	C		C	R	W
<input type="checkbox"/> Wood Thrush	U	U	U	R	W
<input type="checkbox"/> American Robin	A	A	A	U	F,W
Thrashers					
<input type="checkbox"/> Gray Catbird	C	C	C		WE
<input type="checkbox"/> Northern Mockingbird	U	U	U	R	F,WE
<input type="checkbox"/> Brown Thrasher	C	C	C	R	WE
Waxwings					
<input type="checkbox"/> Cedar Waxwing	C	U	C	U	W,M
Starlings					
<input type="checkbox"/> European Starling	A	A	A	A	ALL
Vireos					
<input type="checkbox"/> White-eyed Vireo	U	R	U		W
<input type="checkbox"/> Solitary Vireo	U	R	U		W
<input type="checkbox"/> Yellow-throated Vireo	C	U	U		W
<input type="checkbox"/> Warbling Vireo	C	C	U		WE,P
<input type="checkbox"/> Philadelphia Vireo	U	R	U		W
<input type="checkbox"/> Red-eyed Vireo	C	C	C		W
Warblers					
<input type="checkbox"/> Blue-winged Warbler	C	U	U		WE
<input type="checkbox"/> Golden-winged* Warbler	R	R	R		WE
<input type="checkbox"/> Tennessee Warbler	C	R	C		W
<input type="checkbox"/> Nashville Warbler	C	R	C		W
<input type="checkbox"/> Northern Parula Warbler	U	R	R		W
<input type="checkbox"/> Orange-crowned Warble	U	R	U		W
<input type="checkbox"/> Yellow Warbler	C	C	R		WE,M
<input type="checkbox"/> Chestnut-sided Warbler	C	R	U		W,WE
<input type="checkbox"/> Magnolia Warbler	C	R	C		W
<input type="checkbox"/> Cape May Warbler	C	R	C		W
<input type="checkbox"/> Yellow-rumped Warbler	C	R	C		W,M
<input type="checkbox"/> Black-throated Green Warbler	C	R	C		W
<input type="checkbox"/> Blackburnian Warbler	C	R	C		W
<input type="checkbox"/> Prairie Warbler	U	U	R		D
<input type="checkbox"/> Palm Warbler	C	R	C		WE,M
<input type="checkbox"/> Bay-breasted Warbler	C	R	C		W
<input type="checkbox"/> Blackpoll Warbler	C	R	C		W
<input type="checkbox"/> Cerulean Warbler	C	C	R		W
<input type="checkbox"/> Black and White Warbler	C	R	C		W
<input type="checkbox"/> American Redstart	C	U	C		W
<input type="checkbox"/> Ovenbird	C	C	U		W
<input type="checkbox"/> Northern Waterthrush	U	R	U		WE,M
<input type="checkbox"/> Louisiana Waterthrush	U	R	U		S
<input type="checkbox"/> Mourning Warbler	R	R	R		WE

* State endangered



PORTER COUNTY BIRDERS CHECKLIST

Bird	Seasons				Habitat
	SP	S	F	W	
<input type="checkbox"/> Common Yellowthroat	C	C	C		M
<input type="checkbox"/> Hooded Warbler	U	R	R		S
<input type="checkbox"/> Wilson's Warbler	C	R	C		W
<input type="checkbox"/> Canada Warbler	C	R	C		W
<input type="checkbox"/> Yellow-breasted Chat	U	R	R		M,WE
Tanagers					
<input type="checkbox"/> Scarlet Tanager	C	C	U		W
Cardinals & Buntings					
<input type="checkbox"/> Northern Cardinal	A	A	A	A	F,WE
<input type="checkbox"/> Rose-breasted Grosbeak	C	C	C		W
<input type="checkbox"/> Indigo Bunting	C	C	C		F,WE
<input type="checkbox"/> Dickcissel	U	U	U		F
Sparrows					
<input type="checkbox"/> Eastern Towhee	C	C	C	R	WE
<input type="checkbox"/> Tree Sparrow	C	C	C		F,WE
<input type="checkbox"/> Chipping Sparrow	C	C	C		F,WE,D
<input type="checkbox"/> Field Sparrow	C	C	C	U	F,D,M
<input type="checkbox"/> Vesper Sparrow	U	U	U		F,D
<input type="checkbox"/> Savannah Sparrow	U	U	U		F,D
<input type="checkbox"/> Grasshopper Sparrow	U	U	U		F
<input type="checkbox"/> Fox Sparrow	C		C	R	WE
<input type="checkbox"/> Song Sparrow	C	C	C	U	M,WE
<input type="checkbox"/> Lincoln's Sparrow	U		U		W
<input type="checkbox"/> Swamp Sparrow	C	C	C	U	M,S
<input type="checkbox"/> White-throated Sparrow	C		C	R	WE
<input type="checkbox"/> White-crowned Sparrow	C		C	R	WE
<input type="checkbox"/> Dark-eyed Junco	C		C	A	WE
<input type="checkbox"/> Lapland Longspur	R		R	R	B
<input type="checkbox"/> Snow Bunting	R		U	U	F,B
Blackbirds & Orioles					
<input type="checkbox"/> Bobolink	C	C	R		F
<input type="checkbox"/> Red-winged Blackbird	A	A	A	U	F,M,S
<input type="checkbox"/> Eastern Meadowlark	C	C	C		F
<input type="checkbox"/> Western Meadowlark	R	R	R		F
<input type="checkbox"/> Yellow-headed Blackbird*	R	R	R		M
<input type="checkbox"/> Rusty Blackbird	U	R	U	R	S
<input type="checkbox"/> Common Grackle	C	C	C	U	M,F
<input type="checkbox"/> Brown-headed Cowbird	C	C	C	U	W,WE
<input type="checkbox"/> Baltimore Oriole	C	C	U		W,WE
<input type="checkbox"/> Orchard Oriole	U	U	U		W,WE
Finches					
<input type="checkbox"/> Purple Finch	U	U	U	U	W
<input type="checkbox"/> House Finch	A	A	A	A	U
<input type="checkbox"/> Common Redpoll	R		R	U	WE
<input type="checkbox"/> Pine Siskin	R		R	U	WE
<input type="checkbox"/> American Goldfinch	A	A	A	A	F,WE,U
<input type="checkbox"/> Evening Grosbeak	R		R	U	WE
Old World Sparrows					
<input type="checkbox"/> House Sparrow	A	A	A	A	U

* State endangered

19



ACKNOWLEDGEMENTS

The Porter County Convention, Recreation & Visitors Commission (PCCRVC) would like to give special thanks to David Oberst, Director of Education and Naturalist at Taltree Arboretum & Gardens, and Taltree board member, Laurie Eberhardt, Ph.D., for their help in creating this guide. The PCCRVC is truly grateful for their help.

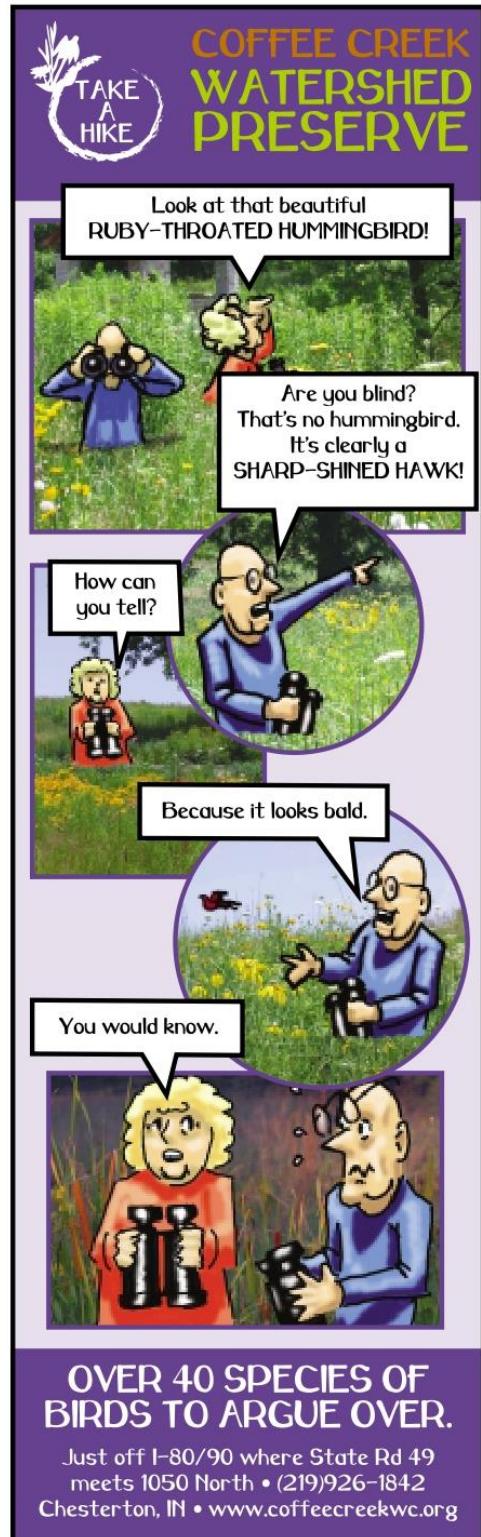
TALTREE ARBORETUM & GARDENS: “A SPECIAL PLACE TO BIRD”

Taltree offers the birder a wide variety of habitat at one location: Prairie, Savanna, Woods, Wooded Edges, Swamp, Pond and open Wetland, can all be easily observed at this 300+ acre site. More than 60 species of birds have been identified on Taltree’s property. The Bluebird Trail derives its name from the numerous Bluebird nesting boxes along its route, Eastern Bluebirds are a common site at Taltree. The trail directs visitors along the perimeter of the prairie in an effort to reduce disturbance to wildlife and restore habitat to natural nesting conditions. As a result grassland-nesting birds, such as the Bobolink, that need a large area of undisturbed habitat for survival have abundantly returned. This trail also traverses a 7-acre open wetland, which holds abundant migratory waterfowl in the spring. Wood Ducks are a common site as they utilize nesting boxes in the wetland. In 2002, a Hooded Merganser successfully nested at Taltree. Migrating spring warblers can be viewed in abundance along the Heron Pond Woodlands and Owl Trails. Taltree is an excellent site to view raptors. Red-tailed, Cooper’s and Sharp-shinned Hawks are year round residents. During the winter and early spring months a pair of Northern Harrier Hawks regularly patrol the open space at the arboretum. Wild Turkey, Ring-necked Pheasant and Bobwhite Quail are also present. Other birds of particular interest are American Woodcocks, Eastern Meadowlarks, Dickcissels, Indigo Buntings, Rose-breasted Grosbeaks, Baltimore Orioles and the Savanna and Grasshopper Sparrows. Taltree Arboretum & Gardens: A Natural Inspiration....

Bibliography

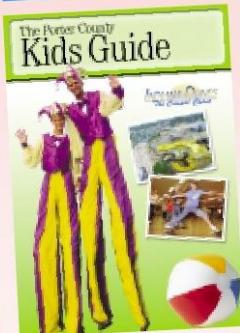
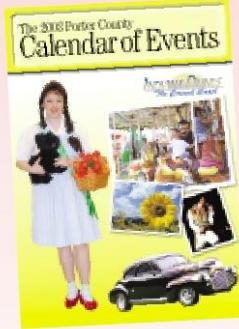
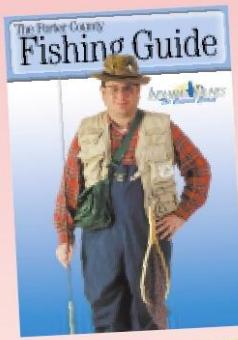
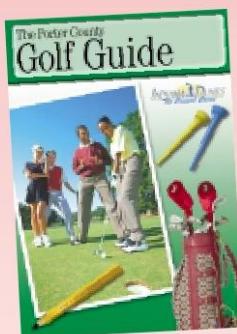
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Inc., 2000.
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*Special thanks to Ken Brock for permission to use information about birding
in the Indiana Dunes directly from his book, **Birds of the Indiana Dunes.***



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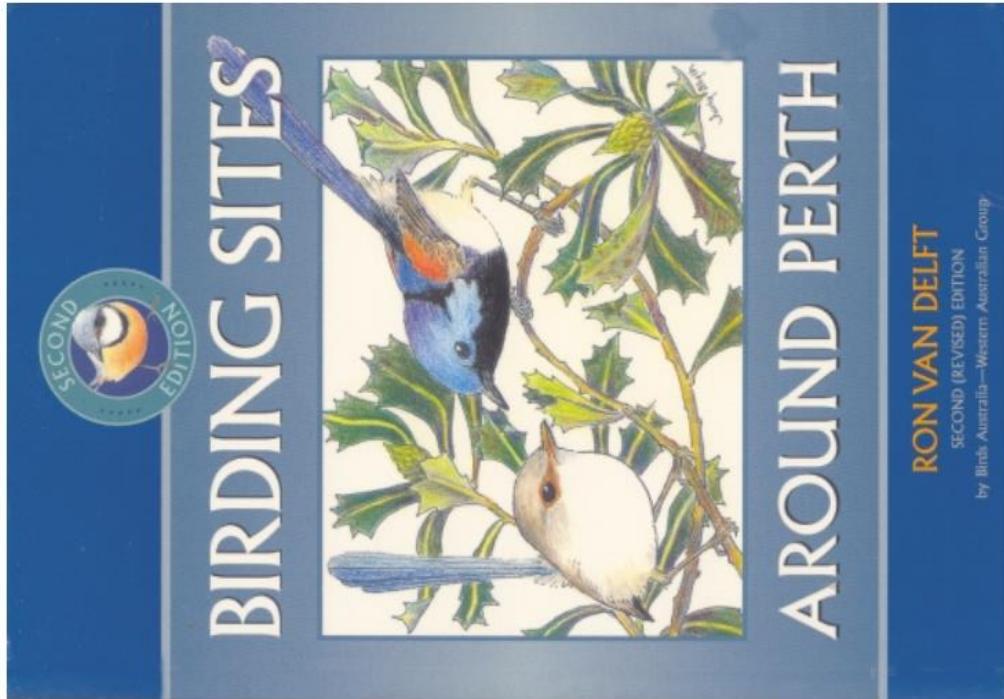
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Birds Australia Western Australia Inc.
71 Oceanic Drive
Floreat WA 6014 Weekdays 9.30 - 12.30 pm



Phone: (08) 9383 7749
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Email: birdswa@jinet.net.au
Web: birdswa.jinet.net.au



Appendix C – Browser History

Browsing Episode 1

URL : <http://start.mozilla.org/firefox?client=firefox-a&rls=org.mozilla:en-GB:official>

First Visit Date : 24/01/2005 16:28:20

Last Visit Date : 02/02/2005 14:10:48

Visit Count : 2

Host Name : start.mozilla.org

Title :

Record Index : 0

URL :

http://www.google.co.uk/cxfer?c=PREF%3D:TM%3D1106584100:S%3DmHsHVdKldLZ9yvE_&prev=/firefox%3Fclient%3Dfirefox-a%26rls%3Dorg.mozilla:en-GB:official

First Visit Date : 24/01/2005 16:28:20

Last Visit Date : 24/01/2005 16:28:20

Visit Count : 0

Host Name : google.co.uk

Title :

Record Index : 2

URI : http://www.google.co.uk/firefox?client=firefox_2&rls=org.mozilla:en_GB:official

First Visit Date : 24/01/2005 16:28:20

Last Visit Date : 03/03/2005 14:10:48

Visit Count : 2

Host Name : google.co.uk

Title : Mozilla Firefox Start Page

Record Index : 3

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=====

URL : http://www.google.com/firefox?client=firefox-a&rls=org.mozilla:en-GB:official

First Visit Date : 24/01/2005 16:28:20

Last Visit Date : 02/02/2005 14:10:48

Visit Count : 2

Host Name : google.com

Title :

Record Index : 1

=====

=====

URL : http://www.mozilla.org/about/

First Visit Date : 24/01/2005 16:28:37

Last Visit Date : 24/01/2005 16:28:37

Visit Count : 0

Host Name : mozilla.org

Title : About Mozilla

Record Index : 4

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URL : http://www.mozilla.org/products/

First Visit Date : 24/01/2005 16:28:40

Last Visit Date : 24/01/2005 16:28:40

Visit Count : 0

Host Name : mozilla.org

Title : Mozilla Products

Record Index : 5

=====

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URL : <http://www.mozilla.org/products/thunderbird/>

First Visit Date : 24/01/2005 16:28:40

Last Visit Date : 24/01/2005 16:28:40

Visit Count : 0

Host Name : mozilla.org

Title : Thunderbird - Reclaim Your Inbox

Record Index : 6

=====

=====

URL : <ftp://ftp.scarlet.be/pub.mozilla.org/thunderbird/releases/1.0/win32/en-US/Thunderbird%20Setup%201.0.exe>

First Visit Date : 24/01/2005 16:28:47

Last Visit Date : 24/01/2005 16:28:47

Visit Count : 0

Host Name : ftp.scarlet.be

Title :

Record Index : 8

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URL : <http://download.mozilla.org/?product=thunderbird&os=win&lang=en-US>

First Visit Date : 24/01/2005 16:28:47

Last Visit Date : 24/01/2005 16:28:47

Visit Count : 0

Host Name : download.mozilla.org

Title :

Record Index : 7

=====

Browsing Episode 2

=====

URL : http://www.google.co.uk/search?client=firefox-a&rls=org.mozilla%3Aen-GB%3Aofficial_s&hl=en&q=birds&meta=&btnG=Google+Search

First Visit Date : 02/02/2005 14:11:46

Last Visit Date : 02/02/2005 14:11:46

Visit Count : 0

Host Name : google.co.uk

Title : Google Search: birds

Record Index : 18

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URL : http://www.pbs.org/lifeofbirds/

First Visit Date : 02/02/2005 14:11:54

Last Visit Date : 02/02/2005 15:11:30

Visit Count : 2

Host Name : pbs.org

Title : The Life of Birds

Record Index : 19

=====

=====

URL : <http://www.pbs.org/lifeofbirds/songs/index.html>

First Visit Date : 02/02/2005 14:12:05

Last Visit Date : 02/02/2005 15:11:34

Visit Count : 2

Host Name : pbs.org

Title : The Life of Birds | Songs

Record Index : 20

=====

=====

URL : <http://www.amazon.co.uk/exec/obidos/external-search/026-5665785-2744400?tag=roscosolutions&keyword=birds&mode=books-uk>

First Visit Date : 02/02/2005 14:14:49

Last Visit Date : 02/02/2005 14:14:49

Visit Count : 0

Host Name : amazon.co.uk

Title : Amazon.co.uk: Search Results Books: birds

Record Index : 24

=====

=====

URL : <http://www.amazon.co.uk/exec/obidos/external-search?tag=roscosolutions&keyword=birds&mode=books-uk>

First Visit Date : 02/02/2005 14:14:49

Last Visit Date : 02/02/2005 14:14:49

Visit Count : 0

Host Name : amazon.co.uk

Title :

Record Index : 23

=====

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URL :
http://www.google.co.uk/pagead/iclk?adurl=http://www.amazon.co.uk/exec/obidos/external-search%3Ftag%3Drosicosolutions%26keyword%3Dbirds%26mode%3Dbooks-uk&sa=l&ai=BW2r0o98AQvKADLuuQbHk9JwHhtWFCMrNsqsBt7bCBaCNBhAEGAQgtlQoBTgAQIoWSLs5oAHVtMD_A6oBH9yZy5tb3ppbGxhOmVuLUDCOM9mZmljaWFsX3PIAQE&num=4

First Visit Date : 02/02/2005 14:14:49

Last Visit Date : 02/02/2005 14:14:49

Visit Count : 0

Host Name : google.co.uk

Title :

Record Index : 21

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URL :
http://www.googleadservices.com/pagead/adclick?adurl=http://www.amazon.co.uk/exec/obidos/external-search%3Ftag%3Drosicosolutions%26keyword%3Dbirds%26mode%3Dbooks-uk&sa=L&ai=BW2r0o98AQvKADLuuQbHk9JwHhtWFCMrNsqsBt7bCBaCNBhAEGAQgtlQoBTgAQIoWSLs5oAHVtMD_A6oBH9yZy5tb3ppbGxhOmVuLUDCOM9mZmljaWFsX3PIAQE&num=4

First Visit Date : 02/02/2005 14:14:49

Last Visit Date : 02/02/2005 14:14:49

Visit Count : 0

Host Name : googleadservices.com

Title :

Record Index : 22

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URL : http://www.amazon.co.uk/exec/obidos/ASIN/0007176147/qid=1107353690/sr=2-1/ref=sr_2_11_1/026-5665785-2744400

First Visit Date : 02/02/2005 14:14:59

Last Visit Date : 02/02/2005 14:14:59

Visit Count : 0

Host Name : amazon.co.uk

Title : Amazon.co.uk: Books: Garden Birds Collins Gem S.

Record Index : 25

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URL : http://www.amazon.co.uk/exec/obidos/ASIN/0713666161/qid=1107353690/sr=2-3/ref=sr_2_11_3/026-5665785-2744400

First Visit Date : 02/02/2005 14:15:29

Last Visit Date : 02/02/2005 14:15:29

Visit Count : 0

Host Name : amazon.co.uk

Title : Amazon.co.uk: Books: The Secret Lives of Garden Birds

Record Index : 26

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URL : http://www.google.co.uk/search?q=bird+wallpaper&sourceid=mozilla-search&start=0&start=0&ie=utf-8&oe=utf-8&client=firefox-a&rls=org.mozilla:en-GB:official

First Visit Date : 02/02/2005 14:15:42

Last Visit Date : 02/02/2005 14:15:42

Visit Count : 0

Host Name : google.co.uk

Title : Google Search: bird wallpaper

Record Index : 27

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URL :

http://as.casalemedia.com/s?s=53524&u=http%3A//www.naturewallpaper.net/birds_L.html&f=2&id=5780266264.517584

First Visit Date : 02/02/2005 14:15:51

Last Visit Date : 02/02/2005 14:15:51

Visit Count : 0

Host Name : as.casalemedia.com

Title :

Record Index : 29

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URL : http://www.naturewallpaper.net/birds_L.html

First Visit Date : 02/02/2005 14:15:51

Last Visit Date : 02/02/2005 14:15:51

Visit Count : 0

Host Name : naturewallpaper.net

Title : Free Bird Wallpaper - Bald Eagle Albatross Owl Falcon 1024x768

Record Index : 28

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URL :

http://asg36.casalemedia.com/s?s=53524&u=http%3A//www.naturewallpaper.net/birds_L.html&f=2&id=5780266264.517584

First Visit Date : 02/02/2005 14:15:56

Last Visit Date : 02/02/2005 14:15:56

Visit Count : 0

Host Name : asg36.casalemedia.com

Title :

Record Index : 31

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URL : http://isg10.casalemedia.com/V2/40842/43608

First Visit Date : 02/02/2005 14:15:56

Last Visit Date : 02/02/2005 14:15:56

Visit Count : 0

Host Name : isg10.casalemedia.com

Title :

Record Index : 32

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URL : http://isg10.casalemedia.com/V2/40842/43608/

First Visit Date : 02/02/2005 14:15:56

Last Visit Date : 02/02/2005 14:15:56

Visit Count : 0

Host Name : isg10.casalemedia.com

Title : 3-Home

Record Index : 33

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URL : http://pagead2.googlesyndication.com/pagead/ads?client=ca-pub-0241683974610684&dt=1107353756202&lmt=1107353751&format=468x60_as&output=http

%3A%2F%2Fwww.naturewallpaper.net%2Fbirds_L.html&ref=http%3A%2F%2Fwww.google.co.uk%2Fsearch%3Fq%3Dbird%2Bwallpaper%26sourceid%3Dmozilla-search%26start%3D0%26start%3D0%26ie%3Dutf-8%26oe%3Dutf-8%26client%3Dfirefox-a%26rls%3Dorg.mozilla%3Aen-GB%3Aofficial&u_h=768&u_w=1024&u_ah=738&u_aw=1024&u_cd=24&u_his=5&u_nplug=5&u_nmime=13

First Visit Date : 02/02/2005 14:15:56

Last Visit Date : 02/02/2005 14:15:56

Visit Count : 0

Host Name : pagead2.googlesyndication.com

Title :

Record Index : 30

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URL :

http://media.fastclick.net/w/get.media?t=n&sid=11194&m=1&f=b&v=1.4&c=1495&r=http%3A//www.naturewallpaper.net/birds_L.html&d=f

First Visit Date : 02/02/2005 14:16:21

Last Visit Date : 02/02/2005 14:16:21

Visit Count : 0

Host Name : media.fastclick.net

Title : Winner !!!!

Record Index : 35

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URL : http://pagead2.googlesyndication.com/pagead/ads?client=ca-pub-0241683974610684&dt=1107353782360&lmt=1107353781&format=468x60_as&output=html&url=http%3A%2F%2Fwww.naturewallpaper.net%2FbirdsLpages%2Fimage4.html&ref=http%3A%2F%2Fwww.naturewallpaper.net%2Fbirds_L.html&u_h=768&u_w=1024&u_ah=738&u_aw=1024&u_cd=24&u_his=6&u_nplug=5&u_nmime=13

First Visit Date : 02/02/2005 14:16:21

Last Visit Date : 02/02/2005 14:16:21

Visit Count : 0

Host Name : pagead2.googlesyndication.com

Title :

Record Index : 36

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URL : http://www.naturewallpaper.net/birdsLpages/image4.html

First Visit Date : 02/02/2005 14:16:21

Last Visit Date : 02/02/2005 14:16:21

Visit Count : 0

Host Name : naturewallpaper.net

Title : bald_eagle3.jpg

Record Index : 34

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URL :

http://media.fastclick.net/w/get.media?t=n&sid=11194&m=1&f=b&v=1.4&c=7262&r=http%3A//www.naturewallpaper.net/birds_L.html&d=f

First Visit Date : 02/02/2005 14:18:45

Last Visit Date : 02/02/2005 14:18:45

Visit Count : 0

Host Name : media.fastclick.net

Title : Winner !!!!

Record Index : 38

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URL : http://pagead2.googlesyndication.com/pagead/ads?client=ca-pub-0241683974610684&dt=1107353925746&lmt=1107353925&format=468x60_as&output=html&url=http%3A%2F%2Fwww.naturewallpaper.net%2FbirdsLpages%2Fimage21.html&ref=http%3A%2F%2Fwww.naturewallpaper.net%2Fbirds_L.html&u_h=768&u_w=1024&u_ah=738&u_aw=1024&u_cd=24&u_his=6&u_nplug=5&u_nmime=13

First Visit Date : 02/02/2005 14:18:45

Last Visit Date : 02/02/2005 14:18:45

Visit Count : 0

Host Name : pagead2.googlesyndication.com

Title :

Record Index : 39

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URL : http://www.naturewallpaper.net/birdsLpages/image21.html

First Visit Date : 02/02/2005 14:18:45

Last Visit Date : 02/02/2005 14:18:45

Visit Count : 0

Host Name : naturewallpaper.net

Title : snow_geese.jpg

Record Index : 37

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URL : http://pagead2.googlesyndication.com/pagead/adclick?sa=L&ai=Bv4uhneAAQrfmAqX-QcmCpMoK0MuACPLnwJwBwl23AcC4AhACGAlg05r2ASgCQloWSlo5sgEXd3d3Lm5hdHVyZXdhbGxwYXBci5uZXS6AQk0Njh4NjBfYXPIAQHaASTodHRwOi8vd3d3Lm5hdHVyZXdhbGxwYXBici5uZXQvYmlyZHNfTC5odG1s&#num=2&adurl=http://uk.shop.com/amos/cc/main/ccn_search_catsa/st/bald%2Beagle/sy/products/ccsyn/518/SourceID/30&client=ca-pub-0241683974610684

First Visit Date : 02/02/2005 14:19:48

Last Visit Date : 02/02/2005 14:19:48

Visit Count : 0

Host Name : pagead2.googlesyndication.com

Title :

Record Index : 41

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URL : http://pagead2.googlesyndication.com/pagead/iclk?sa=l&ai=Bv4uhneAAQrfmAqX-QcmCpMoK0MuACPLnwJwBwl23AcC4AhACGAlg05r2ASgCQloWSIo5sgEXd3d3Lm5hdHVyZXdhbGxwYXBci5uZXS6AQk0Njh4NjBfYXPIAQHaASTodHRwOi8vd3d3Lm5hdHVyZXdhbGxwYXBlc5uZXQvYmlyZHNfTC5odG1s&num=2&adurl=http://uk.shop.com/amos/cc/main/ccn_search_catsa/st/bald%2Beagle/sy/products/ccsyn/518/SourceID/30&client=ca-pub-0241683974610684

First Visit Date : 02/02/2005 14:19:48

Last Visit Date : 02/02/2005 14:19:48

Visit Count : 0

Host Name : pagead2.googlesyndication.com

Title :

Record Index : 40

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URL :

http://uk.shop.com/amos/cc/main/ccn_search_catsa/st/bald+eagle/sy/products/ccsyn/518/SourceID/30

First Visit Date : 02/02/2005 14:19:56

Last Visit Date : 02/02/2005 14:19:56

Visit Count : 0

Host Name : uk.shop.com

Title : SHOP.COM - Search results for bald eagle

Record Index : 42

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URL :

http://amos.shop.com/amos/cc/main/catalog/pcd/7107298/prd/10187717/ccsyn/518/_x_/Choices-Direct---Movies-Bird-Safari---Bird-Watcher's-Paradise-VIDEO\

First Visit Date : 02/02/2005 14:20:19

Last Visit Date : 02/02/2005 14:20:19

Visit Count : 0

Host Name : amos.shop.com

Title : SHOP.COM - Bird Safari - Bird Watcher's Paradise from Choices Direct - Movies is available in Documentary

Record Index : 43

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URL : http://www.google.co.uk/search?hl=en&client=firefox-a&rls=org.mozilla%3Aen-GB%3Aofficial&q=bird+stories&btnG=Search&meta=

First Visit Date : 02/02/2005 14:22:25

Last Visit Date : 02/02/2005 14:22:25

Visit Count : 0

Host Name : google.co.uk

Title : Google Search: bird stories

Record Index : 44

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URL : http://birding.about.com/od/storie1/

First Visit Date : 02/02/2005 14:22:38

Last Visit Date : 02/02/2005 14:22:38

Visit Count : 0

Host Name : birding.about.com

Title : Bird Stories and Tales

Record Index : 45

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URL :

http://n479ad.doubleclick.net/adi/abt.hobbies/hobbies_birding;svc=;site=birding;t=14;pc=1;fd=0;fs=0;a=;sbj=pid512;kw=;chan=hobbies;syn=about;tile=1;r=0;dcopt=ist;sz=728x90;ord=1522EMf0O20SA1B0c43

First Visit Date : 02/02/2005 14:22:38

Last Visit Date : 02/02/2005 14:22:38

Visit Count : 0

Host Name : n479ad.doubleclick.net

Title : Click Here!

Record Index : 46

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URL : http://z.about.com/0/ip/417/5.htm?CDN=hobbies

First Visit Date : 02/02/2005 14:22:38

Last Visit Date : 02/02/2005 14:26:43

Visit Count : 8

Host Name : z.about.com

Title :

Record Index : 48

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URL : http://z.about.com/0/ip/496/0.htm

First Visit Date : 02/02/2005 14:22:38

Last Visit Date : 02/02/2005 14:26:43

Visit Count : 8

Host Name : z.about.com

Title : Untitled Document

Record Index : 49

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URL : http://z.about.com/0/ip/512/12.htm

First Visit Date : 02/02/2005 14:22:38

Last Visit Date : 02/02/2005 14:26:43

Visit Count : 8

Host Name : z.about.com

Title :

Record Index : 51

=====

URL : http://z.about.com/0/ip/512/6.htm

First Visit Date : 02/02/2005 14:22:38

Last Visit Date : 02/02/2005 14:26:43

Visit Count : 8

Host Name : z.about.com

Title :

Record Index : 50

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URL : http://z.about.com/5/ad/go.htm?gs=birding

First Visit Date : 02/02/2005 14:22:38

Last Visit Date : 02/02/2005 14:26:43

Visit Count : 8

Host Name : z.about.com

Title : Google Offers

Record Index : 47

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URL :

http://n479ad.doubleclick.net/adi/abt.hobbies/hobbies_birding;svc=;site=birding;t=14;pc=1;fd=0;fs=0;a=;sbj=pid512;kw=;chan=hobbies;syn=about;tile=4;r=0;sz=728x91;ord=1522EMf0O20SA1B0c43

First Visit Date : 02/02/2005 14:22:45

Last Visit Date : 02/02/2005 14:22:45

Visit Count : 0

Host Name : n479ad.doubleclick.net

Title : Click Here!

Record Index : 52

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URL : http://z.about.com/5/ad/am.htm?pid=about

First Visit Date : 02/02/2005 14:22:45

Last Visit Date : 02/02/2005 14:26:43

Visit Count : 8

Host Name : z.about.com

Title : Audience Match Data Agent

Record Index : 54

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URL : http://z.about.com/6/o/b.htm?gs=birding

First Visit Date : 02/02/2005 14:22:45

Last Visit Date : 02/02/2005 14:26:43

Visit Count : 7

Host Name : z.about.com

Title : Current Headlines

Record Index : 53

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URL : http://birding.about.com/library/weekly/aa102598.htm

First Visit Date : 02/02/2005 14:23:04

Last Visit Date : 02/02/2005 14:23:04

Visit Count : 0

Host Name : birding.about.com

Title : Wings of Terror - avian humor article for people interesting in birdwatching and others interested in birds

Record Index : 55

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URL :

http://n479ad.doubleclick.net/adi/abt.hobbies/hobbies_birding;svc=;site=birding;t=0;pc=2;fd=0;fs=0;a=;sbj=pid512;kw=;chan=hobbies;syn=about;tile=1;r=0;dcopt=ist;sz=728x90;ord=1522EN50L20SA0d1843

First Visit Date : 02/02/2005 14:23:04

Last Visit Date : 02/02/2005 14:23:04

Visit Count : 0

Host Name : n479ad.doubleclick.net

Title : Click Here!

Record Index : 56

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URL :
http://n479ad.doubleclick.net/adi/abt.hobbies/hobbies_birding;svc=;site=birding;t=0;pc=2;fd=0;fs=0;a=;sbj=pid512;kw=;chan=hobbies;syn=about;tile=2;r=0;sz=120x600;ord=1522EN50L20SA0d1843

First Visit Date : 02/02/2005 14:23:04

Last Visit Date : 02/02/2005 14:23:04

Visit Count : 0

Host Name : n479ad.doubleclick.net

Title : Click Here!

Record Index : 59

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URL :
http://n479ad.doubleclick.net/adi/abt.hobbies/hobbies_birding;svc=;site=birding;t=0;pc=2;fd=0;fs=0;a=;sbj=pid512;kw=;chan=hobbies;syn=about;tile=4;r=0;sz=728x91;ord=1522EN50L20SA0d1843

First Visit Date : 02/02/2005 14:23:04

Last Visit Date : 02/02/2005 14:23:04

Visit Count : 0

Host Name : n479ad.doubleclick.net

Title : Click Here!

Record Index : 60

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URL : <http://z.about.com/5/o/c.htm?gs=birding>

First Visit Date : 02/02/2005 14:23:04

Last Visit Date : 02/02/2005 14:26:43

Visit Count : 6

Host Name : z.about.com

Title : Related Articles

Record Index : 58

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URL : <http://z.about.com/7/o/cw.htm?gs=birding>

First Visit Date : 02/02/2005 14:23:04

Last Visit Date : 02/02/2005 14:26:43

Visit Count : 6

Host Name : z.about.com

Title :

Record Index : 57

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URL : <http://birding.about.com/library/blalphatypeofbird.htm>

First Visit Date : 02/02/2005 14:23:56

Last Visit Date : 02/02/2005 14:23:56

Visit Count : 0

Host Name : birding.about.com

Title : Alphabetical Index of Birds

Record Index : 62

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URL :

http://clk.about.com/?zi=18/yV&sdn=hobbies_birding&tm=51&f=00&su=p512.6.140.ip_p512.12.140.ip
_&tt=0&zv=http%3A//birding.about.com/library/blalphatypeofbird.htm

First Visit Date : 02/02/2005 14:23:56

Last Visit Date : 02/02/2005 14:23:56

Visit Count : 0

Host Name : clk.about.com

Title :

Record Index : 61

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URL :

http://n479ad.doubleclick.net/adi/abt.hobbies/hobbies_birding;svc=;site=birding;t=0;pc=3;fd=0;fs=0;a=
;sbj=pid512;kw=;chan=hobbies;syn=about;tile=1;r=0;u=0mfh7s21101oie;dcopt=ist;sz=728x90;ord=1522
ENrON20SA0T0C668

First Visit Date : 02/02/2005 14:23:56

Last Visit Date : 02/02/2005 14:23:56

Visit Count : 0

Host Name : n479ad.doubleclick.net

Title : Click Here!

Record Index : 63

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URL :

http://n479ad.doubleclick.net/adi/abt.hobbies/hobbies_birding;svc=;site=birding;t=0;pc=3;fd=0;fs=0;a=
;sbj=pid512;kw=;chan=hobbies;syn=about;tile=2;r=0;u=0mfh7s21101oie;sz=120x600;ord=1522ENrON20
SA0T0C668

First Visit Date : 02/02/2005 14:23:56

Last Visit Date : 02/02/2005 14:23:56

Visit Count : 0

Host Name : n479ad.doubleclick.net

Title : Click Here!

Record Index : 64

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URL :

http://n479ad.doubleclick.net/adi/abt.hobbies/hobbies_birding;svc=;site=birding;t=0;pc=3;fd=0;fs=0;a=;sbj=pid512;kw=;chan=hobbies;syn=about;tile=4;r=0;u=0mfh7s21101oie;sz=728x91;ord=1522ENr0N20SA0T0C668

First Visit Date : 02/02/2005 14:23:56

Last Visit Date : 02/02/2005 14:23:56

Visit Count : 0

Host Name : n479ad.doubleclick.net

Title : Click Here!

Record Index : 65

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URL : http://birding.about.com/library/blhousespecs.htm

First Visit Date : 02/02/2005 14:24:18

Last Visit Date : 02/02/2005 14:24:18

Visit Count : 0

Host Name : birding.about.com

Title : Specs for Building Birdhouses and for use in Bird House Plans

Record Index : 67

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URL :
http://clk.about.com/?zi=18/yV&sdn=hobbies_birding&tm=20&f=00&su=p512.6.140.ip_p512.12.140.ip
_&tt=0&zu=http%3A//birding.about.com/library/blhousespecs.htm

First Visit Date : 02/02/2005 14:24:18

Last Visit Date : 02/02/2005 14:24:18

Visit Count : 0

Host Name : clk.about.com

Title :

Record Index : 66

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URL :
http://n479ad.doubleclick.net/adi/abt.hobbies/hobbies_birding;svc=;site=birding;t=0;pc=4;fd=0;fs=0;a=
;sbj=pid512;kw=;chan=hobbies;syn=about;tile=1;r=0;u=0mfh7s21101oie;dcopt=ist;sz=728x90;ord=1522
EOJ0E20SA2k0X896

First Visit Date : 02/02/2005 14:24:18

Last Visit Date : 02/02/2005 14:24:18

Visit Count : 0

Host Name : n479ad.doubleclick.net

Title : Click Here!

Record Index : 68

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URL :
http://n479ad.doubleclick.net/adi/abt.hobbies/hobbies_birding;svc=;site=birding;t=0;pc=4;fd=0;fs=0;a=
;sbj=pid512;kw=;chan=hobbies;syn=about;tile=2;r=0;u=0mfh7s21101oie;sz=120x600;ord=1522EOJ0E20
SA2k0X896

First Visit Date : 02/02/2005 14:24:18

Last Visit Date : 02/02/2005 14:24:18

Visit Count : 0

Host Name : n479ad.doubleclick.net

Title : Click Here!

Record Index : 69

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URL :

http://n479ad.doubleclick.net/adi/abt.hobbies/hobbies_birding;svc=;site=birding;t=0;pc=4;fd=0;fs=0;a=;sbj=pid512;kw=;chan=hobbies;syn=about;tile=4;r=0;u=0mfh7s21101oie;sz=728x91;ord=1522EOJOE20S
A2k0X896

First Visit Date : 02/02/2005 14:24:18

Last Visit Date : 02/02/2005 14:24:18

Visit Count : 0

Host Name : n479ad.doubleclick.net

Title : Click Here!

Record Index : 70

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URL : http://birding.about.com/cs/buildhouses/index.htm

First Visit Date : 02/02/2005 14:24:32

Last Visit Date : 02/02/2005 14:24:32

Visit Count : 0

Host Name : birding.about.com

Title :

Record Index : 71

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URL : http://birding.about.com/od/buildhouses/

First Visit Date : 02/02/2005 14:24:32

Last Visit Date : 02/02/2005 14:24:32

Visit Count : 0

Host Name : birding.about.com

Title : How to Build Bird Houses and Nest Boxes

Record Index : 72

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URL :

http://n479ad.doubleclick.net/adi/abt.hobbies/hobbies_birding;svc=;site=birding;t=14;pc=5;fd=0;fs=0;a=;sbj=pid512;kw=;chan=hobbies;syn=about;tile=1;r=0;u=0mfh7s21101oie;dcopt=ist;sz=468x60;ord=1522EOV0N20SA0G0P124

First Visit Date : 02/02/2005 14:24:32

Last Visit Date : 02/02/2005 14:24:32

Visit Count : 0

Host Name : n479ad.doubleclick.net

Title : Click Here!

Record Index : 73

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URL :

http://n479ad.doubleclick.net/adi/abt.hobbies/hobbies_birding;svc=;site=birding;t=14;pc=5;fd=0;fs=0;a=;sbj=pid512;kw=;chan=hobbies;syn=about;tile=3;r=0;u=0mfh7s21101oie;sz=336x280;ord=1522EOV0N20SA0G0P124

First Visit Date : 02/02/2005 14:24:32

Last Visit Date : 02/02/2005 14:24:32

Visit Count : 0

Host Name : n479ad.doubleclick.net

Title : Click Here

Record Index : 74

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URL :

http://n479ad.doubleclick.net/adi/abt.hobbies/hobbies_birding;svc=;site=birding;t=14;pc=5;fd=0;fs=0;a=;sbj=pid512;kw=;chan=hobbies;syn=about;tile=4;r=0;u=0mfh7s21101oie;sz=728x91;ord=1522EOV0N20SA0G0P124

First Visit Date : 02/02/2005 14:24:32

Last Visit Date : 02/02/2005 14:24:32

Visit Count : 0

Host Name : n479ad.doubleclick.net

Title : Click Here!

Record Index : 75

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URL : http://birding.about.com/cs/birdhousesfeeders/a/buildingindex.htm

First Visit Date : 02/02/2005 14:24:42

Last Visit Date : 02/02/2005 14:24:42

Visit Count : 0

Host Name : birding.about.com

Title : Free Feeder and Birdhouse Plans Index

Record Index : 76

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URL :

http://n479ad.doubleclick.net/adi/abt.hobbies/hobbies_birding;svc=;site=birding;t=2;pc=6;fd=0;fs=0;a=;sbj=pid512;kw=;chan=hobbies;syn=about;tile=2;r=0;u=0mfh7s21101oie;sz=120x600;ord=1522EOb0P20SA3M0A64

First Visit Date : 02/02/2005 14:24:42

Last Visit Date : 02/02/2005 14:24:42

Visit Count : 0

Host Name : n479ad.doubleclick.net

Title : Click Here!

Record Index : 79

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URL :

http://n479ad.doubleclick.net/adi/abt.hobbies/hobbies_birding;svc=;site=birding;t=2;pc=6;fd=0;fs=0;a=;sbj=pid512;kw=;chan=hobbies;syn=about;tile=3;r=0;u=0mfh7s21101oie;dcopt=ist;sz=336x280;ord=252
2EOb0P20SA3M0A64

First Visit Date : 02/02/2005 14:24:42

Last Visit Date : 02/02/2005 14:24:42

Visit Count : 0

Host Name : n479ad.doubleclick.net

Title : Click Here!

Record Index : 77

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URL :

http://n479ad.doubleclick.net/adi/abt.hobbies/hobbies_birding;svc=;site=birding;t=2;pc=6;fd=0;fs=0;a=;sbj=pid512;kw=;chan=hobbies;syn=about;tile=4;r=0;u=0mfh7s21101oie;sz=728x91;ord=1522EOb0P20S
A3M0A64

First Visit Date : 02/02/2005 14:24:42

Last Visit Date : 02/02/2005 14:24:42

Visit Count : 0

Host Name : n479ad.doubleclick.net

Title : Click Here!

Record Index : 78

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URL :
http://view.atdmt.com/VON/iview/btcmxvon026000015von/direct/01?click=http://n479ad.doubleclick.net/click%3Bh=v4|3213|3|0|%2a|q%3B12023409%3B0-0%3B0%3B7596722%3B4252-336|280%3B8795737|8813633|1%3Bu%3D0mfh7s21101oie%3B%7Eaopt%3D0|ff373b%3B%7Esscs%3D%3f

First Visit Date : 02/02/2005 14:24:42

Last Visit Date : 02/02/2005 14:24:42

Visit Count : 0

Host Name : view.atdmt.com

Title : vonage_vpart_gothrubiz_336

Record Index : 80

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URL : http://birding.about.com/library/weekly/aa010703a.htm

First Visit Date : 02/02/2005 14:24:55

Last Visit Date : 02/02/2005 14:24:55

Visit Count : 0

Host Name : birding.about.com

Title : Birding and Birdwatching - Build a Bluebird Nest Box for Wild Birds

Record Index : 81

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URL :
http://n479ad.doubleclick.net/adi/abt.hobbies/hobbies_birding;svc=;site=birding;t=0;pc=7;fd=0;fs=0;a=

;sbj=pid512;kw=;chan=hobbies;syn=about;tile=1;r=0;u=0mfh7s21101oie;dcopt=ist;sz=728x90;ord=1522
EOv0I20SA2e0F480

First Visit Date : 02/02/2005 14:24:55

Last Visit Date : 02/02/2005 14:24:55

Visit Count : 0

Host Name : n479ad.doubleclick.net

Title : Click Here!

Record Index : 82

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URL :
http://n479ad.doubleclick.net/adi/abt.hobbies/hobbies_birding;svc=;site=birding;t=0;pc=7;fd=0;fs=0;a=;sbj=pid512;kw=;chan=hobbies;syn=about;tile=2;r=0;u=0mfh7s21101oie;sz=160x600;ord=1522EOv0I20SA2e0F480

First Visit Date : 02/02/2005 14:24:55

Last Visit Date : 02/02/2005 14:24:55

Visit Count : 0

Host Name : n479ad.doubleclick.net

Title : Click Here!

Record Index : 83

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URL :
http://n479ad.doubleclick.net/adi/abt.hobbies/hobbies_birding;svc=;site=birding;t=0;pc=7;fd=0;fs=0;a=;sbj=pid512;kw=;chan=hobbies;syn=about;tile=4;r=0;u=0mfh7s21101oie;sz=728x91;ord=1522EOv0I20SA2e0F480

First Visit Date : 02/02/2005 14:24:55

Last Visit Date : 02/02/2005 14:24:55

Visit Count : 0

Host Name : n479ad.doubleclick.net

Title : Click Here!

Record Index : 84

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URL : <http://birding.about.com/library/blhousefeederpaint.htm>

First Visit Date : 02/02/2005 14:26:43

Last Visit Date : 02/02/2005 14:26:43

Visit Count : 0

Host Name : birding.about.com

Title : Birding and Birdwatching - Painting or Staining Bird Houses and Feeders

Record Index : 86

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URL :

http://clk.about.com/?zi=18/yW&sdn=hobbies_birding&tm=107&f=00&su=p512.6.140.ip_p512.12.140.ip_&tt=0&zu=http%3A//birding.about.com/library/blhousefeederpaint.htm

First Visit Date : 02/02/2005 14:26:43

Last Visit Date : 02/02/2005 14:26:43

Visit Count : 0

Host Name : clk.about.com

Title :

Record Index : 85

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URL :

http://n479ad.doubleclick.net/adi/abt.hobbies/hobbies_birding;svc=;site=birding;t=0;pc=8;fd=0;fs=0;a=

;sbj=pid512;kw=;chan=hobbies;syn=about;tile=1;r=0;u=0mfh7s21101oie;dcopt=ist;sz=728x90;ord=1522
EQi0B20SA1x0N820

First Visit Date : 02/02/2005 14:26:43

Last Visit Date : 02/02/2005 14:26:43

Visit Count : 0

Host Name : n479ad.doubleclick.net

Title : Click Here!

Record Index : 87

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URL :

http://n479ad.doubleclick.net/adi/abt.hobbies/hobbies_birding;svc=;site=birding;t=0;pc=8;fd=0;fs=0;a=;sbj=pid512;kw=;chan=hobbies;syn=about;tile=2;r=0;u=0mfh7s21101oie;sz=160x600;ord=1522EQi0B20
SA1x0N820

First Visit Date : 02/02/2005 14:26:43

Last Visit Date : 02/02/2005 14:26:43

Visit Count : 0

Host Name : n479ad.doubleclick.net

Title : Click Here!

Record Index : 88

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URL :

http://n479ad.doubleclick.net/adi/abt.hobbies/hobbies_birding;svc=;site=birding;t=0;pc=8;fd=0;fs=0;a=;sbj=pid512;kw=;chan=hobbies;syn=about;tile=4;r=0;u=0mfh7s21101oie;sz=728x91;ord=1522EQi0B20S
A1x0N820

First Visit Date : 02/02/2005 14:26:43

Last Visit Date : 02/02/2005 14:26:43

Visit Count : 0

Host Name : n479ad.doubleclick.net

Title : Click Here!

Record Index : 89

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URL : http://pagead2.googlesyndication.com/pagead/adclick?sa=L&ai=BiW5-JeMAQviVFI7YQa3yjJsK_PzSBq7nwZQBwI23AaCzIxABGAEgvKX3ASgIQloWSJQ5mAGcSqdBEHByaW1ZGIhX2JpcmRpbmeyARFiaXJkaW5nLmFib3V0LmNvbcgBAdoBN2h0dHA6Ly9iaXJkaW5nLmFib3V0LmNvbS9saWJyYXJ5L2JsaG91c2VmZWVkZXJwYWludC5odG0&num=1&adurl=http://www.haiths.com&client=ca-primedia-basic_js

First Visit Date : 02/02/2005 14:27:01

Last Visit Date : 02/02/2005 14:27:01

Visit Count : 0

Host Name : pagead2.googlesyndication.com

Title :

Record Index : 91

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URL : http://pagead2.googlesyndication.com/pagead/iclk?sa=l&ai=BiW5-JeMAQviVFI7YQa3yjJsK_PzSBq7nwZQBwI23AaCzIxABGAEgvKX3ASgIQloWSJQ5mAGcSqdBEHByaW1ZGIhX2JpcmRpbmeyARFiaXJkaW5nLmFib3V0LmNvbcgBAdoBN2h0dHA6Ly9iaXJkaW5nLmFib3V0LmNvbS9saWJyYXJ5L2JsaG91c2VmZWVkZXJwYWludC5odG0&num=1&adurl=http://www.haiths.com&client=ca-primedia-basic_js

First Visit Date : 02/02/2005 14:27:01

Last Visit Date : 02/02/2005 14:27:01

Visit Count : 0

Host Name : pagead2.googlesyndication.com

Title :

Record Index : 90

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URL : <http://www.haiths.com/>

First Visit Date : 02/02/2005 14:27:07

Last Visit Date : 02/02/2005 14:27:07

Visit Count : 0

Host Name : haiths.com

Title : Haith's Wild Bird Foods & Bill Oddie's tips and advice also bird feeder, peanut, birdseed, bird, garden birds, wildlife, nest box, bird table, birdcare, binocular, bird bath, squirrel, robin,

Record Index : 92

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URL :

http://www.haiths.com/Features.asp?lookup=0&brand=1&article_id=features_1&customer_id=PAA0219022305524FFFKSRSZKKXZGRWU

First Visit Date : 02/02/2005 14:28:31

Last Visit Date : 02/02/2005 14:28:31

Visit Count : 0

Host Name : haiths.com

Title : Haith's Wild Bird Foods & Bill Oddie's tips and advice also bird feeder, peanut, birdseed, bird, garden birds, wildlife, nest box, bird table, birdcare, binocular, bird bath, squirrel, robin,

Record Index : 93

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URL : <http://www.imdb.com/title/tt0056869/>

First Visit Date : 02/02/2005 14:40:24

Last Visit Date : 02/02/2005 14:40:24

Visit Count : 0

Host Name : imdb.com

Title : The Birds 1963

Record Index : 94

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URL : <http://www.imdb.com/google/box?num=3;k=power100-withsc;placement=midbucket;rnd=45504;sid=7845;referer=%2Ftitle%2Ftt0056869%2F;slot=GOOGLE>

First Visit Date : 02/02/2005 14:40:30

Last Visit Date : 02/02/2005 14:40:30

Visit Count : 0

Host Name : imdb.com

Title :

Record Index : 95

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URL : <http://rcm.amazon.com/e/cm?f=ifr&t=imdb-rec-banner-20&l=st1&search=widescreen&mode=dvd&p=13&o=1>

First Visit Date : 02/02/2005 14:40:46

Last Visit Date : 02/02/2005 14:40:46

Visit Count : 0

Host Name : rcm.amazon.com

Title :

Record Index : 98

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URL : http://www.imdb.com/google/box?num=3;k=power100-withsc;placement=midbucket;rnd=83932;sid=8055;referer=%2Ftitle%2Ftt0056869%2Ftrailers;slot=BOTTOM_CENTER

First Visit Date : 02/02/2005 14:40:46

Last Visit Date : 02/02/2005 14:40:46

Visit Count : 0

Host Name : imdb.com

Title :

Record Index : 99

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URL : http://www.imdb.com/rg/title-tease/trailers/title/tt0056869/trailers

First Visit Date : 02/02/2005 14:40:46

Last Visit Date : 02/02/2005 14:40:46

Visit Count : 0

Host Name : imdb.com

Title :

Record Index : 96

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URL : http://www.imdb.com/title/tt0056869/trailers

First Visit Date : 02/02/2005 14:40:46

Last Visit Date : 02/02/2005 14:40:46

Visit Count : 0

Host Name : imdb.com

Title : Trailers for The Birds 1963

Record Index : 97

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URL : http://www.imdb.com/google/box?num=5;k=maxww-sky;placement=2;rnd=872225854982059300;sid=-123;referer=maxww;slot=TOP_RHS

First Visit Date : 02/02/2005 14:40:49

Last Visit Date : 02/02/2005 14:40:49

Visit Count : 0

Host Name : imdb.com

Title :

Record Index : 100

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URL : http://videodetective.com/home.asp?PublishedID=1843

First Visit Date : 02/02/2005 14:41:00

Last Visit Date : 02/02/2005 14:41:00

Visit Count : 0

Host Name : videodetective.com

Title : VideoDetective.com - Movie Trailers, Entertainment Previews, Streaming Video Samples.

Record Index : 102

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URL :

http://www.imdb.com/rg/TITLETRA_VIDDET//http://videodetective.com/home.asp?PublishedID=1843

First Visit Date : 02/02/2005 14:41:00

Last Visit Date : 02/02/2005 14:41:00

Visit Count : 0

Host Name : imdb.com

Title :

Record Index : 101

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URL :

<http://videodetective.com/player.asp?PublishedId=1843&List=307629|838353&Customerid=97135>

First Visit Date : 02/02/2005 14:41:56

Last Visit Date : 02/02/2005 14:41:56

Visit Count : 0

Host Name : videodetective.com

Title :

Record Index : 103

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URL :

<http://videodetective.com/test.asp>List=307629|838353&PublishedID=1843&ListID=&New=&CustomerId=97135>

First Visit Date : 02/02/2005 14:41:56

Last Visit Date : 02/02/2005 14:41:56

Visit Count : 0

Host Name : videodetective.com

Title :

Record Index : 104

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URL :
<http://videodetective.com/test.asp?List=307629|838353&PublishedID=1843&ListID=&New=&CustomerId=97135&refreshed=TRUE>

First Visit Date : 02/02/2005 14:41:56

Last Visit Date : 02/02/2005 14:41:56

Visit Count : 0

Host Name : videodetective.com

Title :

Record Index : 105

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URL :
<http://videodetective.com/choosespeed.asp?BrowserSupportActiveX=false&ActiveXPlayerInstalled=false&plugin=true&List=307629|838353&PublishedID=1843&ListID=&New=&CustomerId=97135&refreshed=TRUE>

First Visit Date : 02/02/2005 14:42:00

Last Visit Date : 02/02/2005 14:42:00

Visit Count : 0

Host Name : videodetective.com

Title : Video Detective Player

Record Index : 106

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URL :
<http://videodetective.com/play.asp?New=True&List=307629|838353&PublishedId=1843&VideoKbrate=300&ListID=&CustomerId=97135&HasPlayer=>

First Visit Date : 02/02/2005 14:42:09

Last Visit Date : 02/02/2005 14:42:09

Visit Count : 0

Host Name : videodetective.com

Title :

Record Index : 108

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URL :

<http://videodetective.com/player.asp?PublishedId=1843&List=307629|838353&CustomerID=97135&videoKbrate=300>

First Visit Date : 02/02/2005 14:42:09

Last Visit Date : 02/02/2005 14:42:09

Visit Count : 0

Host Name : videodetective.com

Title : Videodetective.com - Player

Record Index : 107

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URL : <http://videodetective.com/Playlist.asp?>

First Visit Date : 02/02/2005 14:42:09

Last Visit Date : 02/02/2005 14:42:09

Visit Count : 0

Host Name : videodetective.com

Title :

Record Index : 110

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URL : <http://videodetective.com/titleinfo.asp>

First Visit Date : 02/02/2005 14:42:09

Last Visit Date : 02/02/2005 14:42:09

Visit Count : 0

Host Name : videodetective.com

Title :

Record Index : 109

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URL : http://news.bbc.co.uk/

First Visit Date : 02/02/2005 14:44:01

Last Visit Date : 02/02/2005 14:44:01

Visit Count : 2

Host Name : news.bbc.co.uk

Title : BBC NEWS | News Front Page

Record Index : 111

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URL : http://news.bbc.co.uk/nol/ukfs_news/hi/front_page/ticker.stm

First Visit Date : 02/02/2005 14:44:01

Last Visit Date : 02/02/2005 14:44:01

Visit Count : 0

Host Name : news.bbc.co.uk

Title :

Record Index : 112

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URL : http://news.bbc.co.uk/1/hi/uk_politics/4227829.stm

First Visit Date : 02/02/2005 14:44:12

Last Visit Date : 02/02/2005 14:44:12

Visit Count : 0

Host Name : news.bbc.co.uk

Title : BBC NEWS | Politics | Blair defends house arrest plans

Record Index : 113

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URL : http://news.bbc.co.uk/1/hi/uk_politics/4227829.stm#

First Visit Date : 02/02/2005 14:45:28

Last Visit Date : 02/02/2005 14:45:28

Visit Count : 0

Host Name : news.bbc.co.uk

Title :

Record Index : 114

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URL :

http://www.bbc.co.uk/mediaselector/check/nolavconsole/ukfs_news/hi?redirect=fs.stm&news=1&bbra
m=1&bbwm=1&nbram=1&nbwm=1&nol_storyid=4229711

First Visit Date : 02/02/2005 14:45:28

Last Visit Date : 02/02/2005 14:45:28

Visit Count : 0

Host Name : bbc.co.uk

Title : BBC Media Selector

Record Index : 115

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URL :

http://news.bbc.co.uk/nolavconsole/shared/player/player.stm?clipurl=http://news.bbc.co.uk/media/news_web/video/40545000/bb/40545855_bb_16x9.ram&bw=bb

First Visit Date : 02/02/2005 14:45:37

Last Visit Date : 02/02/2005 14:45:37

Visit Count : 0

Host Name : news.bbc.co.uk

Title : Untitled

Record Index : 120

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URL :

http://news.bbc.co.uk/nolavconsole/shared/player/player.stm?title=Blair%20defends%20house%20arr%20plans&clipurl=http://news.bbc.co.uk/media/news_web/video/40786000/bb/40786999_bb_16x9.ram&cs=news

First Visit Date : 02/02/2005 14:45:37

Last Visit Date : 02/02/2005 15:04:55

Visit Count : 2

Host Name : news.bbc.co.uk

Title : Untitled

Record Index : 123

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URL :

http://news.bbc.co.uk/nolavconsole/ukfs_news/hi/bb_rm_fs.stm?checkedBandwidth=bb&nbram=1&checkedMedia=ram&news=1&nbwm=1&bbwm=1&bbram=1&nol_storyid=4229711

First Visit Date : 02/02/2005 14:45:37

Last Visit Date : 02/02/2005 14:45:37

Visit Count : 0

Host Name : news.bbc.co.uk

Title : BBC News Player

Record Index : 118

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URL : http://news.bbc.co.uk/nolavconsole/ukfs_news/hi/front_page/bb_rm_banner.stm

First Visit Date : 02/02/2005 14:45:37

Last Visit Date : 02/02/2005 14:45:37

Visit Count : 0

Host Name : news.bbc.co.uk

Title :

Record Index : 119

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URL : http://news.bbc.co.uk/nolavconsole/ukfs_news/hi/front_page/bb_rm_promo.stm

First Visit Date : 02/02/2005 14:45:37

Last Visit Date : 02/02/2005 14:45:37

Visit Count : 0

Host Name : news.bbc.co.uk

Title :

Record Index : 122

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URL :
http://news.bbc.co.uk/nolavconsole/ukfs_news/hi/newsid_4220000/newsid_4229700/bb_rm_4229711.stm

First Visit Date : 02/02/2005 14:45:37

Last Visit Date : 02/02/2005 14:45:37

Visit Count : 0

Host Name : news.bbc.co.uk

Title : BBC NEWS | UK | Blair defends house arrest plans

Record Index : 121

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URL : http://news.bbc.co.uk/nolavconsole/ukfs_news/hi/uk/bb_rm_banner.stm

First Visit Date : 02/02/2005 14:45:37

Last Visit Date : 02/02/2005 15:04:55

Visit Count : 2

Host Name : news.bbc.co.uk

Title :

Record Index : 124

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URL : http://news.bbc.co.uk/nolavconsole/ukfs_news/hi/uk/bb_rm_promo.stm

First Visit Date : 02/02/2005 14:45:37

Last Visit Date : 02/02/2005 15:04:55

Visit Count : 2

Host Name : news.bbc.co.uk

Title : Untitled

Record Index : 125

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URL : http://www.bbc.co.uk/cgi-perl/mediaselector/app.pl?action=sc&alreadySeen=1&m=%2Fnolavconsole%2Fukfs_news%2Fhi&q=nbram%3D1%26redirect%3Dfs.stm%26news%3D1%26nbwm%3D1%26bbwm%3D1%26bbram%3D1%26nol_storyid%3D4229711&quality=HiQuality&player=RealPlayer&frm_Submit=OK

First Visit Date : 02/02/2005 14:45:37

Last Visit Date : 02/02/2005 14:45:37

Visit Count : 0

Host Name : bbc.co.uk

Title : BBC Media Selector

Record Index : 116

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URL :
http://www.bbc.co.uk/mediaselector/check/nolavconsole/ukfs_news/hi?redirect=fs.stm&nbram=1&nws=1&bbwm=1&nbwm=1&bbram=1&nol_storyid=4229711&checkedBandwidth=bb&checkedMedia=ram&alreadySeen=1

First Visit Date : 02/02/2005 14:45:37

Last Visit Date : 02/02/2005 14:45:37

Visit Count : 0

Host Name : bbc.co.uk

Title :

Record Index : 117

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URL : http://news.bbc.co.uk/1/hi/scotland/default.stm

First Visit Date : 02/02/2005 15:11:19

Last Visit Date : 02/02/2005 15:11:19

Visit Count : 0

Host Name : news.bbc.co.uk

Title : BBC NEWS | Scotland

Record Index : 126

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URL : <http://www.pbs.org/lifeofbirds/songs/kakapo.ram>

First Visit Date : 02/02/2005 15:11:41

Last Visit Date : 02/02/2005 15:11:41

Visit Count : 0

Host Name : pbs.org

Title :

Record Index : 127

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URL : <http://www.pbs.org/lifeofbirds/songs/dawn.ram>

First Visit Date : 02/02/2005 15:12:06

Last Visit Date : 02/02/2005 15:12:06

Visit Count : 0

Host Name : pbs.org

Title :

Record Index : 128

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URL : http://www.google.co.uk/search?q=windows+gnupg&sourceid=mozilla-search&start=0&start=0&ie=utf-8&oe=utf-8&client=firefox-a&rls=org.mozilla:en-GB:official

First Visit Date : 02/02/2005 15:57:40

Last Visit Date : 02/02/2005 15:57:40

Visit Count : 0

Host Name : google.co.uk

Title : Google Search: windows gnupg

Record Index : 129

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URL : http://www.gnupg.org/download.html

First Visit Date : 02/02/2005 15:57:51

Last Visit Date : 02/02/2005 15:57:51

Visit Count : 0

Host Name : gnupg.org

Title :

Record Index : 130

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URL : http://www.gnupg.org/download/

First Visit Date : 02/02/2005 15:57:51

Last Visit Date : 02/02/2005 15:57:51

Visit Count : 0

Host Name : gnupg.org

Title : Download - GnuPG.org

Record Index : 131

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URL : http://www.stud.uni-hannover.de/~twoaday/winpt.html

First Visit Date : 02/02/2005 15:58:23

Last Visit Date : 02/02/2005 15:58:23

Visit Count : 0

Host Name : stud.uni-hannover.de

Title :

Record Index : 133

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URL : http://www.winpt.org/

First Visit Date : 02/02/2005 15:58:23

Last Visit Date : 02/02/2005 15:58:23

Visit Count : 0

Host Name : winpt.org

Title : WinPT

Record Index : 132

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URL : http://www.google.co.uk/search?q=windows+gnupg&hl=en&lr=&client=firefox-a&rls=org.mozilla:en-GB:official&start=10&sa=N

First Visit Date : 02/02/2005 15:58:48

Last Visit Date : 02/02/2005 15:58:48

Visit Count : 0

Host Name : google.co.uk

Title : Google Search: windows gnupg

Record Index : 134

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URL : http://openpgp.vie-privee.org/wingpg.html

First Visit Date : 02/02/2005 15:58:58

Last Visit Date : 02/02/2005 15:58:58

Visit Count : 0

Host Name : openpgp.vie-privee.org

Title : GnuPG Windows

Record Index : 135

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URL : http://shell.windows.com/fileassoc/0409/SearchEngine.asp

First Visit Date : 02/02/2005 16:51:54

Last Visit Date : 02/02/2005 16:51:54

Visit Count : 0

Host Name : shell.windows.com

Title :

Record Index : 137

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URL : http://shell.windows.com/fileassoc/0409/xml/redir.asp?Ext=pdf

First Visit Date : 02/02/2005 16:51:54

Last Visit Date : 02/02/2005 16:51:54

Visit Count : 0

Host Name : shell.windows.com

Title : Microsoft Application Search

Record Index : 136

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URL : http://www.adobe.com/products/acrobat/readstep2.html

First Visit Date : 02/02/2005 16:52:06

Last Visit Date : 02/02/2005 16:52:06

Visit Count : 0

Host Name : adobe.com

Title : Adobe Reader - Download

Record Index : 138

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URL :

http://www.adobe.com/products/acrobat/readstep_serverfile.html?hasjavascript=1&esdcanbeused=1&esdcanhandle=0&language=English&platform=WinXP&connectionspeed=broadband&option=full&nodl
m=1&x=27&y=5

First Visit Date : 02/02/2005 16:52:50

Last Visit Date : 02/02/2005 16:52:50

Visit Count : 0

Host Name : adobe.com

Title : Adobe Reader - Download Thank you

Record Index : 139

=====

=====

URL :

http://ardownload.adobe.com/pub/adobe/reader/win/7x/7.0/enu/AdbeRdr70_enu_full.exe

First Visit Date : 02/02/2005 16:53:13

Last Visit Date : 02/02/2005 16:53:13

Visit Count : 0

Host Name : ardownload.adobe.com

Title :

Record Index : 140

=====

Browsing Episode 3

=====

URL : http://www.google.co.uk/search?client=firefox-a&rls=org.mozilla%3Aen-GB%3Aofficial_s&hl=en&q=bird+mating+calls&meta=&btnG=Google+Search

First Visit Date : 03/02/2005 12:21:40

Last Visit Date : 03/02/2005 12:21:40

Visit Count : 0

Host Name :

Title : Google Search: bird mating calls

Record Index : 141

=====

=====

URL : http://whyfiles.org/shorties/104chick_sex/

First Visit Date : 03/02/2005 12:21:56

Last Visit Date : 03/02/2005 12:21:56

Visit Count : 0

Host Name : whyfiles.org

Title : Chickadee Karaoke

Record Index : 142

=====

=====

URL : http://www.google.co.uk/imghp?hl=en&tab=wi&client=firefox-a&rls=org.mozilla:en-GB:official_s&q=

First Visit Date : 03/02/2005 14:59:29

Last Visit Date : 03/02/2005 14:59:29

Visit Count : 0

Host Name :

Title : Google Image Search

Record Index : 143

=====

=====

URL : http://images.google.co.uk/images?client=firefox-a&rls=org.mozilla%3Aen-GB%3Aofficial_s&q=young+chicks&hl=en&btnG=Google+Search

First Visit Date : 03/02/2005 14:59:40

Last Visit Date : 03/02/2005 14:59:40

Visit Count : 0

Host Name : images.google.co.uk

Title : Google Search: young chicks

Record Index : 144

=====

=====

URL : http://freespace.virgin.net/cobber.budgies/stories/scottie_a.html

First Visit Date : 03/02/2005 14:59:56

Last Visit Date : 03/02/2005 14:59:56

Visit Count : 0

Host Name : freespace.virgin.net

Title : Scottie's Baby Pictures - 1

Record Index : 147

=====

=====

URL :
http://images.google.co.uk/imgres?imgurl=http://freespace.virgin.net/cobber.budgies/images/babyscot_vyoung.jpg&imgrefurl=http://freespace.virgin.net/cobber.budgies/stories/scottie_a.html&h=353&w=350&sz=38&tbnid=4jg3dcJYAelJ:&tbnh=116&tbnw=115&prev=/images%3Fq%3Dyoung%2Bchicks%26hl%3Den%26lr%3D%26client%3Dfirefox-a%26rls%3Dorg.mozilla:en-GB:official_s%26sa%3DG&frame=small

First Visit Date : 03/02/2005 14:59:56

Last Visit Date : 03/02/2005 14:59:56

Visit Count : 0

Host Name :

Title :

Record Index : 146

=====

=====

URL :
http://images.google.co.uk/imgres?imgurl=http://freespace.virgin.net/cobber.budgies/images/babyscot_vyoung.jpg&imgrefurl=http://freespace.virgin.net/cobber.budgies/stories/scottie_a.html&h=353&w=350&sz=38&tbnid=4jg3dcJYAelJ:&tbnh=116&tbnw=115&start=5&prev=/images%3Fq%3Dyoung%2Bchick%26hl%3Den%26lr%3D%26client%3Dfirefox-a%26rls%3Dorg.mozilla:en-GB:official_s%26sa%3DG

First Visit Date : 03/02/2005 14:59:56

Last Visit Date : 03/02/2005 14:59:56

Visit Count : 0

Host Name :

Title : Google Image Result for
http://freespace.virgin.net/cobber.budgies/images/babyscot_vyoung.jpg

Record Index : 145

=====

=====

URL :

http://images.google.co.uk/imgres?imgurl=http://www.insaneanimals.com/items/177.jpg&imgrefurl=http://www.insaneanimals.com/funny-animals/177.html%3Fsort%3Ddate&h=290&w=350&sz=10&tbnid=97SA3_pw84UJ:&tbnh=96&tbnw=116&prev=/images%3Fq%3Dyoung%2Bchicks%26hl%3Den%26lr%3D%26client%3Dfirefox-a%26rls%3Dorg.mozilla:en-GB:official_s%26sa%3DG&frame=small

First Visit Date : 03/02/2005 15:01:02

Last Visit Date : 03/02/2005 15:01:02

Visit Count : 0

Host Name :

Title :

Record Index : 149

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=====

URL :

http://images.google.co.uk/imgres?imgurl=http://www.insaneanimals.com/items/177.jpg&imgrefurl=http://www.insaneanimals.com/funny-animals/177.html%3Fsort%3Ddate&h=290&w=350&sz=10&tbnid=97SA3_pw84UJ:&tbnh=96&tbnw=116&start=6&prev=/images%3Fq%3Dyoung%2Bchicks%26hl%3Den%26lr%3D%26client%3Dfirefox-a%26rls%3Dorg.mozilla:en-GB:official_s%26sa%3DG

First Visit Date : 03/02/2005 15:01:02

Last Visit Date : 03/02/2005 15:01:02

Visit Count : 0

Host Name :

Title : Google Image Result for http://www.insaneanimals.com/items/177.jpg

Record Index : 148

=====

=====

URL : http://www.insaneanimals.com/funny-animals/177.html?sort=date

First Visit Date : 03/02/2005 15:01:08

Last Visit Date : 03/02/2005 15:01:08

Visit Count : 0

Host Name : insaneanimals.com

Title : Young Chicks - Funny Animals, Pets, Cats and Dogs Pictures - Insane Animals

Record Index : 150

=====

=====

URL :

http://media.fastclick.net/w/get.media?t=n&sid=13470&m=3&f=b&v=1.4&c=7098&r=http%3A//images.google.co.uk/imgres%3Fimgurl%3Dhttp%3A//www.insaneanimals.com/items/177.jpg%26imgrefurl%3Dhttp%3A//www.insaneanimals.com/funny-animals/177.html%253Fsort%253Ddate%26h%3D290%26w%3D350%26sz%3D10%26tnid%3D97SA3_pw84UJ%3A%26tbnh%3D96%26tbnw%3D116%26start%3D6%26prev%3D/images%253Fq%253Dyoung%252Bchicks%2526hl%253Den%2526lr%253D%2526client%253Dfirefox-a%2526rls%253Dorg.mozilla%3Aen-GB%3Aofficial_s%2526sa%253DG&d=f

First Visit Date : 03/02/2005 15:01:17

Last Visit Date : 03/02/2005 15:01:17

Visit Count : 0

Host Name :

Title :

Record Index : 151

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URL : http://pagead2.googlesyndication.com/pagead/ads?client=ca-pub-2066660325911329&dt=1107442877733&format=120x600_as&output=html&url=http%3A%2F%2Fimages.google.co.uk%2Fimgres%3Fimgurl%3Dhttp%3A%2F%2Fwww.insaneanimals.com%2Fitems%2F177.jpg%26imgrefurl%3Dhttp%3A%2F%2Fwww.insaneanimals.com%2Ffunny-animals%2F177.html%253Fsort%253Ddate%26h%3D290%26w%3D350%26sz%3D10%26tnid%3D97SA3_pw84UJ%3A%26tbnh%3D96%26tbnw%3D116%26start%3D6%26prev%3D%2Fimages%253Fq%253Dyoung%252Bchicks%2526hl%253Den%2526lr%253D%2526client%253Dfirefox-a%2526rls%253Dorg.mozilla%3Aen-

GB%3Aofficial_s%2526sa%253DG&u_h=768&u_w=1024&u_ah=738&u_aw=1024&u_cd=24&u_his=4&u_nplug=9&u_nmime=21

First Visit Date : 03/02/2005 15:01:17

Last Visit Date : 03/02/2005 15:01:17

Visit Count : 0

Host Name :

Title :

Record Index : 152

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URL : http://images.google.co.uk/images?q=young+chicks&hl=en&lr=&client=firefox-a&rls=org.mozilla:en-GB:official_s&start=20&sa=N

First Visit Date : 03/02/2005 15:01:53

Last Visit Date : 03/02/2005 15:01:53

Visit Count : 0

Host Name :

Title :

Record Index : 153

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URL :
http://images.google.co.uk/imgres?imgurl=http://www.cvm.okstate.edu/instruction/kocan/disk2/images/img0056.jpg&imgrefurl=http://www.cvm.okstate.edu/instruction/kocan/ostrich/ostbk2b2.htm&h=768&w=512&sz=108&tbnid=xe9EaVDii1EJ:&tbnh=141&tbnw=94&prev=/images%3Fq%3Dyoung%2Bchicks%26start%3D20%26hl%3Den%26lr%3D%26client%3Dfirefox-a%26rls%3Dorg.mozilla:en-GB:official_s%26sa%3DN&frame=small

First Visit Date : 03/02/2005 15:02:14

Last Visit Date : 03/02/2005 15:02:14

Visit Count : 0

Host Name :

Title :

Record Index : 155

=====

=====

URL :

http://images.google.co.uk/imgres?imgurl=http://www.cvm.okstate.edu/instruction/kocan/disk2/images/img0056.jpg&imgrefurl=http://www.cvm.okstate.edu/instruction/kocan/ostrich/ostbk2b2.htm&h=768&w=512&sz=108&tbnid=xe9EaVDii1EJ:&tbnh=141&tbnw=94&start=24&prev=/images%3Fq%3Dyoung%2Bchicks%26start%3D20%26hl%3Den%26lr%3D%26client%3Dfirefox-a%26rls%3Dorg.mozilla:en-GB:official_s%26sa%3DN

First Visit Date : 03/02/2005 15:02:14

Last Visit Date : 03/02/2005 15:02:14

Visit Count : 0

Host Name :

Title : Google Image Result for

<http://www.cvm.okstate.edu/instruction/kocan/disk2/images/img0056.jpg>

Record Index : 154

=====

=====

URL : <http://www.cvm.okstate.edu/instruction/kocan/ostrich/ostbk2b2.htm>

First Visit Date : 03/02/2005 15:02:14

Last Visit Date : 03/02/2005 15:02:14

Visit Count : 0

Host Name : cvm.okstate.edu

Title :

Record Index : 156

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=====

URL : http://images.google.co.uk/images?q=young+chicks&hl=en&lr=&client=firefox-a&rls=org.mozilla:en-GB:official_s&start=40&sa=N

First Visit Date : 03/02/2005 15:03:32

Last Visit Date : 03/02/2005 15:03:32

Visit Count : 0

Host Name :

Title :

Record Index : 157

=====

URL :

http://images.google.co.uk/imgres?imgurl=http://people.cornell.edu/pages/sah67/chicks2.jpg&imgrefurl=http://people.cornell.edu/pages/sah67/summer.html&h=450&w=600&sz=39&tbnid=7SZWO4nGCbYJ:&tbnh=99&tbnw=132&prev=/images%3Fq%3Dyoung%2Bchicks%26start%3D40%26hl%3Den%26lr%3D%26client%3Dfirefox-a%26rls%3Dorg.mozilla:en-GB:official_s%26sa%3DN&frame=small

First Visit Date : 03/02/2005 15:03:54

Last Visit Date : 03/02/2005 15:03:54

Visit Count : 0

Host Name :

Title :

Record Index : 159

=====

URL :

http://images.google.co.uk/imgres?imgurl=http://people.cornell.edu/pages/sah67/chicks2.jpg&imgrefurl=http://people.cornell.edu/pages/sah67/summer.html&h=450&w=600&sz=39&tbnid=7SZWO4nGCbYJ:&tbnh=99&tbnw=132&start=59&prev=/images%3Fq%3Dyoung%2Bchicks%26start%3D40%26hl%3Den%26lr%3D%26client%3Dfirefox-a%26rls%3Dorg.mozilla:en-GB:official_s%26sa%3DN

First Visit Date : 03/02/2005 15:03:54

Last Visit Date : 03/02/2005 15:03:54
Visit Count : 0
Host Name :
Title : Google Image Result for http://people.cornell.edu/pages/sah67/chicks2.jpg
Record Index : 158

=====

=====

URL : http://people.cornell.edu/pages/sah67/summer.html
First Visit Date : 03/02/2005 15:03:54
Last Visit Date : 03/02/2005 15:03:54
Visit Count : 0
Host Name : people.cornell.edu
Title : Eco Gallery '04
Record Index : 160

=====

Browsing Episode 4

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URL : http://www.google.co.uk/search?client=firefox-a&rls=org.mozilla%3Aen-GB%3Aofficial_s&hl=en&q=bird+screensavers&meta=&btnG=Google+Search
First Visit Date : 09/02/2005 11:27:00

Last Visit Date : 09/02/2005 11:27:00
Visit Count : 0
Host Name :
Title : Google Search: bird screensavers
Record Index : 161

=====

=====

URL : <http://www.traveltex.com/screen.asp?SN=6245300&LS=0&SS=1>

First Visit Date : 09/02/2005 11:27:12

Last Visit Date : 09/02/2005 11:27:12

Visit Count : 0

Host Name : traveltex.com

Title : Screensavers

Record Index : 162

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=====

URL : <http://www.traveltex.com/downloads/screensavers/birds.zip>

First Visit Date : 09/02/2005 11:27:48

Last Visit Date : 09/02/2005 11:27:48

Visit Count : 0

Host Name :

Title :

Record Index : 163

=====

Appendix D – Emails

Email 1:

From: ben@example.org

To: jdoe@example.org

Date/Time Received: 2005/02/09 11:08:01

Accessed: 2005-02-09 11:09:58

CC:

Subject:

good pics

Text:

Hi thought you'd like these

enjoy

Attachments:

3 images of birds

cute_penguin.jpg IMG_3937_filtered.jpg 7EYBTELF1KAN.jpg

Email 2:

From: mailinglists@birds.example.com

To: jdoe@example.org

Date/Time Received: 2005/02/09 11:08:01

Accessed: 2005-02-09 11:09:58

CC:

Subject:

How to Identify Birds

Text:

How to Identify Birds

Are you amazed at how quickly birders can identify birds? Actually, it's just like getting to know your human neighbors. When you move into a new neighborhood everyone is a stranger, but soon you learn to tell people apart as you unconsciously catalog their characteristics. Their habits, shape, styles of walking, and "habitats" become familiar enough that you can recognize each neighbor immediately, even at a distance.

Paying attention to individual differences can help you identify birds, too. You can recognize many birds simply by noting their shapes, even if seen only in silhouette. Other useful characteristics are a bird's posture, size (easiest to judge if you use familiar birds as a size reference), flight pattern and/or head-on flight profile, and the kind of habitat in which the bird was seen.

Start by learning to identify general groups of birds- warblers, flycatchers, hawks, owls, wrens- whose members all share certain similarities. As your observation skills improve, familiarize yourself with the field marks- colored or patterned areas on the bird's body, head, and wings- that help distinguish species.

Attachments:

0 attachments

Email 3:

From: ben@example.org

To: jdoe@example.org

Date/Time Received: 2005/02/09 11:08:01

Accessed: 2005-02-09 11:09:58

CC:

Subject: some more good ones

Text:

Thanks for the pics you sent me here are some I really like

Attachments:

5 images of birds

BC7 feeding the birds.jpg gawall8.jpg colorful-birds.jpg IMG_3937_filtered.jpg

glfs-storm-birds.jpg

Email 4:

From: ben@example.org

To: jdoe@example.org

Date/Time Received: 2005/02/09 11:08:01

Accessed: 2005-02-09 11:09:58

CC:

Subject: expensive birds

Text:

A young woman was walking past a pet shop and saw an exotic, white cockatoo for sale. The price was \$6000. She entered the store and asked the clerk why the bird was so expensive. The clerk told her that the bird spoke 6 different languages. "Does it speak English?" asked the woman. "Of course it does!" said the clerk.

The woman thought about her mother who was multi-lingual, a bit of a recluse and lived all alone.

She decided to purchase the bird and send it to her mother as a companion. She paid for the bird and made arrangements for it to be delivered. The following day, the woman telephoned her mother.

"Mama, did you like the cockatoo that I sent you?" "Oh it was delicious!" she replied." "Mama, what do you mean delicious?" "I made soup out of it."

"But mama, that bird spoke six different languages!"

"Oh dear! Why didn't it say something?"

Attachments:

0 attachments

Appendix E – Mozilla Firefox downloads

Web Download 1

```
<RDF:Description RDF:about="E:\birds\audio\aggressive_song.wav"
  NC:Name="aggressive_song.wav"
  ++++++
  NC:Transferred="716kB of 716kB">
    <NC:URL RDF:resource="http://whyfiles.org/shorties/104chick_sex/images/aggressive_song.wav"/>
    <NC:File RDF:resource="E:\birds\audio\aggressive_song.wav"/>
    <NC:DateStarted NC:parseType="Date">Thu Feb 03 12:22:52 GMT Standard Time 2005
+164782</NC:DateStarted>
    <NC:DateEnded NC:parseType="Date">Thu Feb 03 12:23:00 GMT Standard Time 2005
+466720</NC:DateEnded>
    <NC:DownloadState NC:parseType="Integer">1</NC:DownloadState>
    <NC:ProgressPercent NC:parseType="Integer">100</NC:ProgressPercent>
  </RDF:Description>
```

```
<RDF:Description RDF:about="C:\Documents and Settings\johndoe\My Documents\My
Pictures\babyscot_vyoung.jpg"
  NC:Name="babyscot_vyoung.jpg"
  ++++++
  NC:Transferred="38kB of 38kB">
```

```
    <NC:URL RDF:resource="http://freespace.virgin.net/cobber.budgies/images/babyscot_vyoung.jpg"/>
    <NC:File RDF:resource="C:\Documents and Settings\johndoe\My Documents\My
Pictures\babyscot_vyoung.jpg"/>
    <NC:DateStarted NC:parseType="Date">Thu Feb 03 15:00:19 GMT Standard Time 2005
+779785</NC:DateStarted>
    <NC:DateEnded NC:parseType="Date">Thu Feb 03 15:00:19 GMT Standard Time 2005
+819843</NC:DateEnded>
    <NC:DownloadState NC:parseType="Integer">1</NC:DownloadState>
    <NC:ProgressPercent NC:parseType="Integer">100</NC:ProgressPercent>
  </RDF:Description>
```

```
<RDF:Description RDF:about="C:\Documents and Settings\johndoe\My Documents\My  
Pictures\babyscot_2weeks1.jpg"  
    NC:Name="babyscot_2weeks1.jpg"  
    NC:Transferred="33kB of 33kB">  
  
    <NC:URL  
    RDF:resource="http://freespace.virgin.net/cobber.budgies/images/babyscot_2weeks1.jpg"/>  
  
    <NC:File RDF:resource="C:\Documents and Settings\johndoe\My Documents\My  
    Pictures\babyscot_2weeks1.jpg"/>  
  
    <NC:DateStarted NC:parseType="Date">Thu Feb 03 15:00:27 GMT Standard Time 2005  
+761262</NC:DateStarted>  
  
    <NC:DateEnded NC:parseType="Date">Thu Feb 03 15:00:27 GMT Standard Time 2005  
+811334</NC:DateEnded>  
  
    <NC:DownloadState NC:parseType="Integer">1</NC:DownloadState>  
    <NC:ProgressPercent NC:parseType="Integer">100</NC:ProgressPercent>  
  </RDF:Description>
```

```
<RDF:Description RDF:about="C:\Documents and Settings\johndoe\My Documents\My  
Pictures\177.jpg"  
    NC:Name="177.jpg"  
    +++++++  
    NC:Transferred="9kB of 9kB">  
  
    <NC:URL RDF:resource="http://www.insaneanimals.com/items/177.jpg"/>  
  
    <NC:File RDF:resource="C:\Documents and Settings\johndoe\My Documents\My Pictures\177.jpg"/>  
  
    <NC:DateStarted NC:parseType="Date">Thu Feb 03 15:01:38 GMT Standard Time 2005  
+983675</NC:DateStarted>  
  
    <NC:DateEnded NC:parseType="Date">Thu Feb 03 15:01:39 GMT Standard Time 2005  
+033747</NC:DateEnded>  
  
    <NC:DownloadState NC:parseType="Integer">1</NC:DownloadState>  
    <NC:ProgressPercent NC:parseType="Integer">100</NC:ProgressPercent>  
  </RDF:Description>
```

```
<RDF:Description RDF:about="C:\Documents and Settings\johndoe\My Documents\ostbk2b2.htm"
    NC:Name="ostbk2b2.htm"
    NC:Transferred="4kB of 4kB">
    <NC:URL RDF:resource="http://www.cvm.okstate.edu/instruction/kocan/ostrich/ostbk2b2.htm"/>
    <NC:File RDF:resource="C:\Documents and Settings\johndoe\My Documents\ostbk2b2.htm"/>
    <NC:DateStarted NC:parseType="Date">Thu Feb 03 15:02:45 GMT Standard Time 2005
+499320</NC:DateStarted>
    <NC:DateEnded NC:parseType="Date">Thu Feb 03 15:02:45 GMT Standard Time 2005
+579435</NC:DateEnded>
    <NC:DownloadState NC:parseType="Integer">1</NC:DownloadState>
    <NC:ProgressPercent NC:parseType="Integer">100</NC:ProgressPercent>
</RDF:Description>
```

```
<RDF:Description RDF:about="C:\Documents and Settings\johndoe\Desktop\birdtrans2.jpg"
    NC:Name="birdtrans2.jpg"
    NC:Transferred="58kB of 58kB">
    <NC:URL RDF:resource="http://people.cornell.edu/pages/sah67/birdtrans2.jpg"/>
    <NC:File RDF:resource="C:\Documents and Settings\johndoe\Desktop\birdtrans2.jpg"/>
    <NC:DateStarted NC:parseType="Date">Thu Feb 03 15:04:48 GMT Standard Time 2005
+235806</NC:DateStarted>
    <NC:DateEnded NC:parseType="Date">Thu Feb 03 15:04:48 GMT Standard Time 2005
+285878</NC:DateEnded>
    <NC:DownloadState NC:parseType="Integer">1</NC:DownloadState>
    <NC:ProgressPercent NC:parseType="Integer">100</NC:ProgressPercent>
</RDF:Description>
```

```
<RDF:Description RDF:about="C:\Documents and Settings\johndoe\My Documents\My
Pictures\chicks2.jpg"
    NC:Name="chicks2.jpg"
    NC:Transferred="10kB of 10kB">
    <NC:URL RDF:resource="http://www.cvm.okstate.edu/instruction/kocan/ostrich/chicks2.jpg"/>
    <NC:File RDF:resource="C:\Documents and Settings\johndoe\My Documents\My
Pictures\chicks2.jpg"/>
    <NC:DateStarted NC:parseType="Date">Thu Feb 03 15:05:10 GMT Standard Time 2005
+499320</NC:DateStarted>
    <NC:DateEnded NC:parseType="Date">Thu Feb 03 15:05:10 GMT Standard Time 2005
+579435</NC:DateEnded>
    <NC:DownloadState NC:parseType="Integer">1</NC:DownloadState>
    <NC:ProgressPercent NC:parseType="Integer">100</NC:ProgressPercent>
</RDF:Description>
```

NC:Transferred="38kB of 38kB">
<NC:URL RDF:resource="http://people.cornell.edu/pages/sah67/chicks2.jpg"/>
<NC:File RDF:resource="C:\Documents and Settings\johndoe\My Documents\My Pictures\chicks2.jpg"/>
<NC:DateStarted NC:parseType="Date">Thu Feb 03 15:05:03 GMT Standard Time 2005
+698040</NC:DateStarted>
<NC:DateEnded NC:parseType="Date">Thu Feb 03 15:05:03 GMT Standard Time 2005
+748112</NC:DateEnded>
<NC:DownloadState NC:parseType="Integer">1</NC:DownloadState>
<NC:ProgressPercent NC:parseType="Integer">100</NC:ProgressPercent>
</RDF:Description>

<RDF:Description RDF:about="C:\Documents and Settings\johndoe\My Documents\newbies2.jpg"
NC:Name="newbies2.jpg"
NC:Transferred="54kB of 54kB">
<NC:URL RDF:resource="http://people.cornell.edu/pages/sah67/newbies2.jpg"/>
<NC:File RDF:resource="C:\Documents and Settings\johndoe\My Documents\newbies2.jpg"/>
<NC:DateStarted NC:parseType="Date">Thu Feb 03 15:05:44 GMT Standard Time 2005
+376532</NC:DateStarted>
<NC:DateEnded NC:parseType="Date">Thu Feb 03 15:05:44 GMT Standard Time 2005
+456648</NC:DateEnded>
<NC:DownloadState NC:parseType="Integer">1</NC:DownloadState>
<NC:ProgressPercent NC:parseType="Integer">100</NC:ProgressPercent>
</RDF:Description>

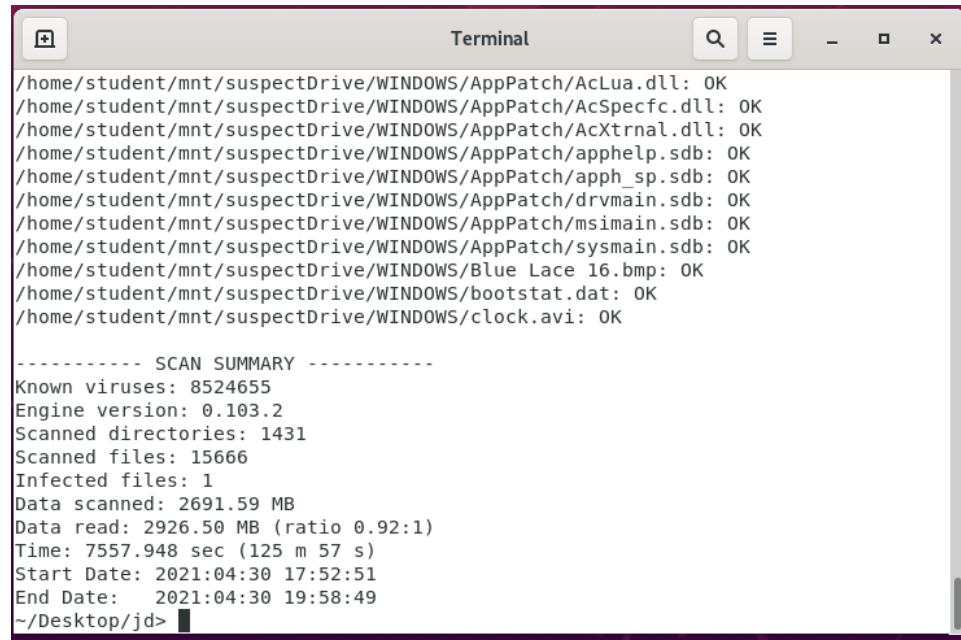
<RDF:Description RDF:about="C:\Documents and Settings\bob\My Documents\My Music\ready2fledge.jpg"
NC:Name="ready2fledge.jpg"
NC:Transferred="77kB of 77kB">

```
<NC:URL RDF:resource="http://people.cornell.edu/pages/sah67/ready2fledge.jpg"/>  
  
<NC:File RDF:resource="C:\Documents and Settings\bob\My Documents\My  
Music\ready2fledge.jpg"/>  
  
<NC:DateStarted NC:parseType="Date">Thu Feb 03 15:06:42 GMT Standard Time 2005  
+379937</NC:DateStarted>  
  
<NC:DateEnded NC:parseType="Date">Thu Feb 03 15:06:42 GMT Standard Time 2005  
+440024</NC:DateEnded>  
  
<NC:DownloadState NC:parseType="Integer">1</NC:DownloadState>  
  
<NC:ProgressPercent NC:parseType="Integer">100</NC:ProgressPercent>  
  
</RDF:Description>
```

Web Download 2

```
<RDF:Description RDF:about="C:\Documents and Settings\johndoe\My Documents\birds.zip"  
|||||||||  
NC:Name="birds.zip"  
  
NC:Transferred="1028kB of 1028kB">  
  
<NC:URL RDF:resource="http://www.traveltex.com/downloads/screensavers/birds.zip"/>  
  
<NC:File RDF:resource="C:\Documents and Settings\johndoe\My Documents\birds.zip"/>  
  
<NC:DateStarted NC:parseType="Date">Wed Feb 09 11:28:00 GMT Standard Time 2005  
+345172</NC:DateStarted>  
  
<NC:DateEnded NC:parseType="Date">Wed Feb 09 11:28:00 GMT Standard Time 2005  
+415273</NC:DateEnded>  
  
<NC:DownloadState NC:parseType="Integer">1</NC:DownloadState>  
  
<NC:ProgressPercent NC:parseType="Integer">100</NC:ProgressPercent>  
  
</RDF:Description>
```

Appendix F – Antivirus scan



The screenshot shows a terminal window titled "Terminal". The output of the scan is displayed, starting with a list of scanned files and their status (all OK), followed by a "SCAN SUMMARY" section providing statistical information about the scan, and ending with the command used to run the scan.

```
/home/student/mnt/suspectDrive/WINDOWS/AppPatch/AcLua.dll: OK
/home/student/mnt/suspectDrive/WINDOWS/AppPatch/ACSpecfc.dll: OK
/home/student/mnt/suspectDrive/WINDOWS/AppPatch/AcXtrnal.dll: OK
/home/student/mnt/suspectDrive/WINDOWS/AppPatch/apphelp.sdb: OK
/home/student/mnt/suspectDrive/WINDOWS/AppPatch/app_h_sp.sdb: OK
/home/student/mnt/suspectDrive/WINDOWS/AppPatch/drvmain.sdb: OK
/home/student/mnt/suspectDrive/WINDOWS/AppPatch/msimain.sdb: OK
/home/student/mnt/suspectDrive/WINDOWS/AppPatch/sysmain.sdb: OK
/home/student/mnt/suspectDrive/WINDOWS/Blue Lace 16.bmp: OK
/home/student/mnt/suspectDrive/WINDOWS/bootstat.dat: OK
/home/student/mnt/suspectDrive/WINDOWS/clock.avi: OK

----- SCAN SUMMARY -----
Known viruses: 8524655
Engine version: 0.103.2
Scanned directories: 1431
Scanned files: 15666
Infected files: 1
Data scanned: 2691.59 MB
Data read: 2926.50 MB (ratio 0.92:1)
Time: 7557.948 sec (125 m 57 s)
Start Date: 2021:04:30 17:52:51
End Date: 2021:04:30 19:58:49
~/Desktop/jd> █
```

t/suspectDrive/Program Files/Real/RealPlayer/realplay.exe: Win.Trojan.Tufik-100 FOUND

Appendix G – List of Files

Episode Carved files			
File	Modified Time	Created Time	Hash
/img_johnDoe.dd/vol_vol2//\$CarvedFiles/f0327896.pdf/image16.jpg	0000-00-00 00:00:00	0000-00-00 00:00:00	00373ae0e2967c5458acc57f3fedff20
/img_johnDoe.dd/vol_vol3//\$CarvedFiles/f0005504_An_Insiders_Guide_to_Enjoying_Your_First_Birding_Field_Trip.doc	0000-00-00 00:00:00	0000-00-00 00:00:00	08c4123261ed8ebb648ba7bcf25788aa
/img_johnDoe.dd/vol_vol2//\$CarvedFiles/f0091752.html	0000-00-00 00:00:00	0000-00-00 00:00:00	09016267be550cc3cd4a8a8c40b82007
/img_johnDoe.dd/vol_vol2//\$CarvedFiles/f0189136.gif	0000-00-00 00:00:00	0000-00-00 00:00:00	118df893643b4b6e577cf9a5c987ae27
/img_johnDoe.dd/vol_vol2//\$CarvedFiles/f0201904.html.gz/f0201904.html	0000-00-00 00:00:00	0000-00-00 00:00:00	11e1f3c817b17d312225408cf0924931
/img_johnDoe.dd/vol_vol2//\$CarvedFiles/f0273688_Newsletter_Win_2001_q.pdf/image4.jpg	0000-00-00 00:00:00	0000-00-00 00:00:00	122255b261e779a3659d84a5569afce4
/img_johnDoe.dd/vol_vol2//\$CarvedFiles/f0327896.pdf/image26.jpg	0000-00-00 00:00:00	0000-00-00 00:00:00	17a9c739e3734d10e7f43b138f9c5aa6
/img_johnDoe.dd/vol_vol2//\$CarvedFiles/f0310480.jpg	0000-00-00 00:00:00	0000-00-00 00:00:00	2ebf36f3124138f584112ddc07e5118b
/img_johnDoe.dd/vol_vol2//\$CarvedFiles/f0327896.pdf/image6.jpg	0000-00-00 00:00:00	0000-00-00 00:00:00	48650701309fdf4d709d5ac7e7e5d710
/img_johnDoe.dd/vol_vol2//\$CarvedFiles/f0327896.pdf/image2.jpg	0000-00-00 00:00:00	0000-00-00 00:00:00	4e7a41349cf80f8ce4abf74aabbc5815
/img_johnDoe.dd/vol_vol2//\$CarvedFiles/f0327896.pdf/image20.jpg	0000-00-00 00:00:00	0000-00-00 00:00:00	4f00da01181cf1cf3d4cd96888119a14
/img_johnDoe.dd/vol_vol2//\$CarvedFiles/f0056976.jpg	0000-00-00 00:00:00	0000-00-00 00:00:00	65f9489e302828bbf65639075646a1ec
/img_johnDoe.dd/vol_vol2//\$CarvedFiles/f0056928.jpg	0000-00-00 00:00:00	0000-00-00 00:00:00	6c814307c6739ea56a85ccf663e3af3b
/img_johnDoe.dd/vol_vol2//\$CarvedFiles/f0327896.pdf/image21.jpg	0000-00-00 00:00:00	0000-00-00 00:00:00	7173084f18c6edfdd084694a159675dc
/img_johnDoe.dd/vol_vol2//\$CarvedFiles/f0273688_Newsletter_Win_2001_q.pdf/image13.jpg	0000-00-00 00:00:00	0000-00-00 00:00:00	71ae324534b5bfc4c8acdf37fc83650c
/img_johnDoe.dd/vol_vol2//\$CarvedFiles/f0273688_Newsletter_Win_2001_q.pdf/image7.jpg	0000-00-00 00:00:00	0000-00-00 00:00:00	762bae6395e9ea45a016efb0bbd5cfde
/img_johnDoe.dd/vol_vol2//\$CarvedFiles/f0033288.html	0000-00-00 00:00:00	0000-00-00 00:00:00	78d676ce04fc12abc49be640b490c6e4
/img_johnDoe.dd/vol_vol2//\$CarvedFiles/f0033912.jpg	0000-00-00 00:00:00	0000-00-00 00:00:00	880b9bafbd139aafb30fb2ecdf373d7
/img_johnDoe.dd/vol_vol2//\$CarvedFiles/f0273688_Newsletter_Win_2001_q.pdf/image1.tif	0000-00-00 00:00:00	0000-00-00 00:00:00	8879a739623bcb42e6834947eda82723
/img_johnDoe.dd/vol_vol2//\$CarvedFiles/f0327896.pdf/image14.jpg	0000-00-00 00:00:00	0000-00-00 00:00:00	931ad1eaa65a63baf83feacf58bcd3b
/img_johnDoe.dd/vol_vol2//\$CarvedFiles/f0041304.html.gz/f0041304.html	0000-00-00 00:00:00	0000-00-00 00:00:00	9613c2658998a4b7eb96e48c813fea1
/img_johnDoe.dd/vol_vol2//\$CarvedFiles/f0327896.pdf/image17.jpg	0000-00-00 00:00:00	0000-00-00 00:00:00	9b8aefed9184934c2affa180d10cbc19
/img_johnDoe.dd/vol_vol2//\$CarvedFiles/f0056920.jpg	0000-00-00 00:00:00	0000-00-00 00:00:00	9e43274bd8374867674f15ffa67be052
/img_johnDoe.dd/vol_vol2//\$CarvedFiles/f0327896.pdf/image12.jpg	0000-00-00 00:00:00	0000-00-00 00:00:00	adab3ef8244801d70550a9b6dd7378b8
/img_johnDoe.dd/vol_vol2//\$CarvedFiles/f0180344.pdf/image1.jpg	0000-00-00 00:00:00	0000-00-00 00:00:00	ae0224250379a9947ab7b0c662403634
/img_johnDoe.dd/vol_vol2//\$CarvedFiles/f0056944.jpg	0000-00-00 00:00:00	0000-00-00 00:00:00	aea86094a7a46fa0b8ff889e9da32ef9
/img_johnDoe.dd/vol_vol2//\$CarvedFiles/f0006912.gif	0000-00-00 00:00:00	0000-00-00 00:00:00	af9c5cdfa4a251c3de59705729d699e3
/img_johnDoe.dd/vol_vol2//\$CarvedFiles/f0056912.jpg	0000-00-00 00:00:00	0000-00-00 00:00:00	b0ec8bb0447b5679c6b54fe85ae40212
/img_johnDoe.dd/vol_vol2//\$CarvedFiles/f0056936.jpg	0000-00-00 00:00:00	0000-00-00 00:00:00	b12a067c033a94b290f89a733f6ca72a
/img_johnDoe.dd/vol_vol2//\$CarvedFiles/f0496112.html.gz/f0496112.html	0000-00-00 00:00:00	0000-00-00 00:00:00	bdbfb2f705953b7a7f7bcba4dc86917e
/img_johnDoe.dd/vol_vol2//\$CarvedFiles/f0072032.html.gz/f0072032.html	0000-00-00 00:00:00	0000-00-00 00:00:00	bdbfb2f705953b7a7f7bcba4dc86917e
/img_johnDoe.dd/vol_vol2//\$CarvedFiles/f0033928.jpg	0000-00-00 00:00:00	0000-00-00 00:00:00	c8556706fc11c2a717f49ee20c1e3292
/img_johnDoe.dd/vol_vol2//\$CarvedFiles/f0327896.pdf/image0.jpg	0000-00-00 00:00:00	0000-00-00 00:00:00	ca0ee720504806e4fb8d27a8b4ef4c87
/img_johnDoe.dd/vol_vol2//\$CarvedFiles/f0327896.pdf/image33.jpg	0000-00-00 00:00:00	0000-00-00 00:00:00	d01c67d39f700e4d264abb770cfaa9de

/img_johnDoe.dd/vol_vol2//\$CarvedFiles/f0180344.pdf/image0.jpg	0000-00-00 00:00:00	0000-00-00 00:00:00	d83bfed1cb6ddae3894b8e2a31421b56
/img_johnDoe.dd/vol_vol2//\$CarvedFiles/f0056952.jpg	0000-00-00 00:00:00	0000-00-00 00:00:00	dcf99efec7a00d28ed11c8923eb96e95
/img_johnDoe.dd/vol_vol2//\$CarvedFiles/f0327896.pdf/image1.jpg	0000-00-00 00:00:00	0000-00-00 00:00:00	df289b9b97460dc4841ef8cdff99f6e6
/img_johnDoe.dd/vol_vol2//\$CarvedFiles/f0005672_Related_Articles.html	0000-00-00 00:00:00	0000-00-00 00:00:00	e17c68d2f5d1053b8774a702b7bb7dbe
/img_johnDoe.dd/vol_vol2//\$CarvedFiles/f0327896.pdf/image5.jpg	0000-00-00 00:00:00	0000-00-00 00:00:00	e7e8a371afc6c15ac1502dc3b7b7046
/img_johnDoe.dd/vol_vol2//\$CarvedFiles/f0327896.pdf/image4.jpg	0000-00-00 00:00:00	0000-00-00 00:00:00	f07b9ddacd6675848058af7732ff8596
/img_johnDoe.dd/vol_vol2//\$CarvedFiles/f0273688_Newsletter_Win_2001_q.pdf/image2.jpg	0000-00-00 00:00:00	0000-00-00 00:00:00	f6c03d997f4f3fbaacf5e4a31b1dba2a
/img_johnDoe.dd/vol_vol2//\$CarvedFiles/f0047504.html	0000-00-00 00:00:00	0000-00-00 00:00:00	f73bf56cd04a25149fefaaee1defc10c3
/img_johnDoe.dd/vol_vol2//\$CarvedFiles/f0327896.pdf/image3.jpg	0000-00-00 00:00:00	0000-00-00 00:00:00	fb5d2adc39b4e01f638eda55200ce380
/img_johnDoe.dd/vol_vol2//\$CarvedFiles/f0273688_Newsletter_Win_2001_q.pdf/image12.tif	0000-00-00 00:00:00	0000-00-00 00:00:00	fe0a0f3a7ca592204d0d7efb2e89f7b7

Episode images in .dll file

File	Modified Time	Created Time	Hash
/img_johnDoe.dd/vol_vol2/WINDOWS/CrouchingKokako.dll/brd_WoodDuck.jpg	2005-02-02 13:25:10 GMT	0000-00-00 00:00:00	296531879159ce77999f1c8af6d1e92a
/img_johnDoe.dd/vol_vol2/WINDOWS/CrouchingKokako.dll/BrushTurkeyPerching.jpg	2005-02-02 13:25:10 GMT	0000-00-00 00:00:00	55bd5a13fd9663b481bce7f066ccb32c
/img_johnDoe.dd/vol_vol2/WINDOWS/CrouchingKokako.dll/CanadaGooseWashing.jpg	2005-02-02 13:25:10 GMT	0000-00-00 00:00:00	7cace0aee77031856c1dc628b4c0c826
/img_johnDoe.dd/vol_vol2/WINDOWS/CrouchingKokako.dll/CanadaGoose.jpg	2005-02-02 13:25:10 GMT	0000-00-00 00:00:00	b7a84aa1ed0763fbe8d52b386c3d13e
/img_johnDoe.dd/vol_vol2/WINDOWS/CrouchingKokako.dll/ChestnutMandibledToucan.jpg	2005-02-02 13:25:10 GMT	0000-00-00 00:00:00	db5480ccb1dbbad7ad245629c0fa80e0
/img_johnDoe.dd/vol_vol2/WINDOWS/CrouchingKokako.dll/Brolga.jpg	2005-02-02 13:25:10 GMT	0000-00-00 00:00:00	e44460b1be9072794611dbdd64d319c9
/img_johnDoe.dd/vol_vol2/WINDOWS/CrouchingKokako.dll/CrouchingKokako.jpg	2005-02-02 13:25:10 GMT	0000-00-00 00:00:00	fa463d5035f0ed111ac59c7f8856d404

Episode My Documents

File	Modified Time	Created Time	Hash
/img_johnDoe.dd/vol_vol2/Documents and Settings/johndoe/My Documents/My Music/Doc1.doc/image_0.jpg	0000-00-00 00:00:00	0000-00-00 00:00:00	864459aedb0450e30cf384c81d470153
/img_johnDoe.dd/vol_vol2/Documents and Settings/johndoe/My Documents/My Pictures/tn_duck_3.jpg	2005-02-02 14:18:11 GMT	2005-02-02 14:18:10 GMT	526e5d096bbfc21f593dd2f0b5bcbd6e
/img_johnDoe.dd/vol_vol2/Documents and Settings/johndoe/My Documents/My Pictures/snow_geese.jpg	2005-02-02 14:18:53 GMT	2005-02-02 14:18:52 GMT	55cc22374ddd67183a02b2b17d343386
/img_johnDoe.dd/vol_vol2/Documents and Settings/johndoe/My Documents/My Pictures/7107298.jpg	2005-02-02 14:20:33 GMT	2005-02-02 14:20:33 GMT	f095a5eee85aa81de775e45e481bab94

/img_johnDoe.dd/vol_vo1/Documents and Settings/johndoe/My Documents/aa010703a_files/bluebirdhousepic.jpg	2005-02-02 14:26:00 GMT	2005-02-02 14:26:00 GMT	44dd2a2b5eb6a829b2650c5b03242b7a
/img_johnDoe.dd/vol_vo1/Documents and Settings/johndoe/My Documents/aa010703a_files/birding.gif	2005-02-02 14:26:00 GMT	2005-02-02 14:26:00 GMT	fe1a00e58cb7f531367d50c754a1ebd2
/img_johnDoe.dd/vol_vo1/Documents and Settings/johndoe/My Documents/aa010703a.htm	2005-02-02 14:26:01 GMT	2005-02-02 14:25:59 GMT	4ab04de423f60bc5e2ff230b5a4f9ced
/img_johnDoe.dd/vol_vo1/Documents and Settings/johndoe/My Documents/aa010703a_files/hobbies_birding_data_002/auto_trivia_1.jpg	2005-02-02 14:26:01 GMT	2005-02-02 14:26:01 GMT	8829836cdd8f55e34de2134c9baec61c
/img_johnDoe.dd/vol_vo1/Documents and Settings/johndoe/My Documents/aa010703a_files/birding_002.gif	2005-02-02 14:26:01 GMT	2005-02-02 14:26:01 GMT	fe1a00e58cb7f531367d50c754a1ebd2
/img_johnDoe.dd/vol_vo1/Documents and Settings/johndoe/My Documents/My Pictures/wbpremium_s.jpg	2005-02-02 14:28:19 GMT	2005-02-02 14:28:19 GMT	0a0b1ae300588ed9d852cc6a38c2ee70
/img_johnDoe.dd/vol_vo1/Documents and Settings/johndoe/My Documents/nestboxtips.txt	2005-02-02 14:29:30 GMT	2005-02-02 14:29:30 GMT	333fc58042a410d453c22984c4b55e3d
/img_johnDoe.dd/vol_vo1/Documents and Settings/johndoe/My Documents/My Pictures/40m.jpg	2005-02-02 14:43:36 GMT	2005-02-02 14:43:35 GMT	b4f567dead60a8292931e12ead7911c9
/img_johnDoe.dd/vol_vo1/Documents and Settings/johndoe/My Documents/kakapo.ram	2005-02-02 15:11:41 GMT	2005-02-02 15:11:51 GMT	836112e9d5fc24471923a5016364ef20
/img_johnDoe.dd/vol_vo1/Documents and Settings/johndoe/My Documents/My Music/Doc1.doc	2005-02-03 14:17:43 GMT	2005-02-03 14:17:42 GMT	9860f16826698f3c38f7486b16aa5e2e
/img_johnDoe.dd/vol_vo1/Documents and Settings/johndoe/My Documents/My Pictures/babyscot_vyoung.jpg	2005-02-03 15:00:19 GMT	2005-02-03 15:00:19 GMT	e3273c1494f601e2e4378580ca76a1ec
/img_johnDoe.dd/vol_vo1/Documents and Settings/johndoe/My Documents/My Pictures/babyscot_2weeks1.jpg	2005-02-03 15:00:27 GMT	2005-02-03 15:00:27 GMT	c14916d4a3c790e80e65232dc8e9a707
/img_johnDoe.dd/vol_vo1/Documents and Settings/johndoe/My Documents/My Pictures/177.jpg	2005-02-03 15:01:39 GMT	2005-02-03 15:01:38 GMT	ac192837bda3a7b224fd259ddad99be5
/img_johnDoe.dd/vol_vo1/\$OrphanFiles/67BAEB46d01	2005-02-03 15:01:55 GMT	2005-02-03 15:01:55 GMT	7bc7bee527e4bed1af3f00d328824d27
/img_johnDoe.dd/vol_vo1/Documents and Settings/johndoe/My Documents/ostbk2b2.htm	2005-02-03 15:02:45 GMT	2005-02-03 15:02:45 GMT	b8dc8422fe0551e1c1eca78f99e7b9c9
/img_johnDoe.dd/vol_vo1/Documents and Settings/johndoe/My Documents/stuf.doc	2005-02-09 16:57:46 GMT	2005-02-09 16:56:50 GMT	c8873d36266916c20bd2f3ebb89a800e

Episode Birdwatching Trip

File	Modified Time	Created Time	Hash
/img_johnDoe.dd/vol_vo1//\$CarvedFiles/f0544152.jpg	0000-00-00 00:00:00	0000-00-00 00:00:00	675e4673799248ad92d0ded690a0a5d4
/img_johnDoe.dd/vol_vo1//\$CarvedFiles/f0545184.jpg	0000-00-00 00:00:00	0000-00-00 00:00:00	c2c38f0c310f9c3cf7dc6dde3f874f9
/img_johnDoe.dd/vol_vo1//\$CarvedFiles/f0395576.jpg	0000-00-00 00:00:00	0000-00-00 00:00:00	73f6a8f9d4472d7300c32e4765246709
/img_johnDoe.dd/vol_vo1//\$CarvedFiles/f0508024.jpg	0000-00-00 00:00:00	0000-00-00 00:00:00	fe1fd96d6e268a57fe2583f9d72481bd
/img_johnDoe.dd/vol_vo1//\$CarvedFiles/f0527448.jpg	0000-00-00 00:00:00	0000-00-00 00:00:00	de5139c857eaa2a13f2e1b46bbf9663f

/img_johnDoe.dd/vol_vol2//\$CarvedFiles/f0045880.jpg	0000-00-00 00:00:00	0000-00-00 00:00:00	502bd8d15da3091618ac3cf483bd1654
/img_johnDoe.dd/vol_vol2/\$OrphanFiles/7013F58Dd01	2005-02-03 15:03:57 GMT	2005-02-03 15:03:56 GMT	a0b3ef3e2dd10cc3c434f5b34636903d
/img_johnDoe.dd/vol_vol2/\$OrphanFiles/FA73DB84d01	2005-02-03 15:03:58 GMT	2005-02-03 15:03:57 GMT	f7db0615babea29e6e759b1849d0a66f
/img_johnDoe.dd/vol_vol2/\$OrphanFiles/404BF387d01	2005-02-03 15:03:59 GMT	2005-02-03 15:03:59 GMT	44e820a7bad45f1e85ea67a38bf960f9
/img_johnDoe.dd/vol_vol2/\$OrphanFiles/5C1E7D60d01	2005-02-03 15:03:59 GMT	2005-02-03 15:03:59 GMT	83a171d89d6476445fa3e3adca06854c
/img_johnDoe.dd/vol_vol2/\$OrphanFiles/42626CDDd01	2005-02-03 15:03:59 GMT	2005-02-03 15:03:57 GMT	c48311098173518bd9fc9739e4d58056
/img_johnDoe.dd/vol_vol2/\$OrphanFiles/A0016363d01	2005-02-03 15:04:00 GMT	2005-02-03 15:04:00 GMT	a47d625cba6895455d099442bad55a3c
/img_johnDoe.dd/vol_vol2/\$OrphanFiles/3E8462AFd01	2005-02-03 15:04:01 GMT	2005-02-03 15:04:00 GMT	041a23c317560764d11f1003dc82e2f
/img_johnDoe.dd/vol_vol2/\$OrphanFiles/3E8662AFd01	2005-02-03 15:04:02 GMT	2005-02-03 15:04:01 GMT	cffb68753718298750d0b5b130e9c372
/img_johnDoe.dd/vol_vol2/\$OrphanFiles/3E8162AFd01	2005-02-03 15:04:02 GMT	2005-02-03 15:04:01 GMT	84ab7a6f4f27a1e8b93433e5b279e68c
/img_johnDoe.dd/vol_vol2/\$OrphanFiles/3E8262AFd01	2005-02-03 15:04:02 GMT	2005-02-03 15:04:01 GMT	056347a7d67d714fb535c01b9667c4cf
/img_johnDoe.dd/vol_vol2/\$OrphanFiles/EF29AEAE01	2005-02-03 15:04:03 GMT	2005-02-03 15:04:02 GMT	5ad002eddc616855099b47323c463a98
/img_johnDoe.dd/vol_vol2/\$OrphanFiles/3E8C62AFd01	2005-02-03 15:04:03 GMT	2005-02-03 15:04:02 GMT	b887686b7bfa6e4da155ef302a3e04b7
/img_johnDoe.dd/vol_vol2/\$OrphanFiles/4C3E89C6d01	2005-02-03 15:04:04 GMT	2005-02-03 15:04:03 GMT	37d60053d5e9336516887a24bc735edc
/img_johnDoe.dd/vol_vol2/\$OrphanFiles/6A161D2Fd01	2005-02-03 15:04:05 GMT	2005-02-03 15:04:03 GMT	65cd3c59f03ab229bd34c3a20d8bf43a
/img_johnDoe.dd/vol_vol2/\$OrphanFiles/A2E5F216d01	2005-02-03 15:04:05 GMT	2005-02-03 15:04:05 GMT	6ec584061dc3fc527b2d5d419a696c94
/img_johnDoe.dd/vol_vol2/\$OrphanFiles/978D14DDd01	2005-02-03 15:04:06 GMT	2005-02-03 15:04:06 GMT	23f96443a3014dad5daa64248f99bbbd
/img_johnDoe.dd/vol_vol2/\$OrphanFiles/61C27B40d01	2005-02-03 15:04:06 GMT	2005-02-03 15:04:04 GMT	9dab8c5377b1f063e18f623e69e09ba0
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Episode Microsoft Clipart

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