

Abertay University



**JOINT REPORT of**

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**Unit name: Defective Cowboys**

**Case against: Mr. John Doe**

**Police Reference No: 911**

**Case Reference No: 16721583**

**PF Reference No: 1337**



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## **Statement of competence**

Team Defective Cowboys is composed of computer science experts, coming from many backgrounds, that have all undergone many months of intensive training in the field of digital forensics under the guidance and supervision of world class tutors, going through many lab activities and obtaining substantial amounts of knowledge and know-how of digital forensics investigation.

# 1 DESCRIPTION OF CRIME

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## 1.1 FUNCTIONAL ANALYSIS

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During the investigation, we have discovered multiple user accounts with names aligning them to the suspect and other people. We have identified that users of accounts aligning with the suspect, John Doe and Ben Forbes have engaged in illegal activities such as possession and distribution of materials of ornithological nature.

Mr. John Doe downloaded files of an ornithological nature (Subsection 4.3.8), then attempted to hide illicit data (Subsection 4.3.2, Subsection 4.3.3 and Subsection 4.3.4), accessed images and sound files of birds (Subsection 4.2.1 and Subsection 4.2.2) and exchanged pictures through email with Mr. Ben Forbes.

Mr. Ben Forbes involved himself in the distribution and possession of ornithological files. He held conversations through email with Mr. Doe, sending ornithological materials to him, as well as thanking him for material he has provided. There is a high possibility that they are friends due to the way emails had been written – informal, some with comedic stories regarding birds.

## 1.2 TEMPORAL ANALYSIS – TIMELINE RECONSTRUCTION

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### 15/10/2004

18:53:39 – John Doe receives an email from Ben Forbes of a comical nature.

### 16/10/2004

18:53:39 – John Doe receives an email from a mailing list about bird identification.

## **24/01/2005**

15:56:49 – John Doe's user account was simultaneously made with other system accounts. This indicates that the Operating System was either installed on that date or was restored due to the access to rstrui.exe at 15:49:50.

16:32:28 – Mozilla Thunderbird was installed on John Doe's account.

## **02/02/2005**

14:25:59 to 14:26:02 – Website files from a bird related site were saved to John Doe's machine in "C:\Documents and Settings\johndoe\My Documents\aa010703a\_files\"

14:28:19 – "**wbpremiums.jpg**", bird food image, was saved on the machine in "C:\Documents and Settings\johndoe\My Documents\My Pictures"

14:29:30 – "**nestboxtips.txt**" was created in "C:\Documents and Settings\johndoe\My Documents"

14:43:35 – Image of "**The Bird**" movie was saved onto the machine.

14:50:55 – regedit.exe was accessed.

15:08:39 – Bob's account was created on the machine.

15:11:51 – "**kakapo.ram**", a RealPlayer file, was saved to "C:\Documents and Settings\johndoe\My Documents"

15:12:09 – John Doe downloaded "**dawn.ram**"

15:25:10 – Ten images of ornithological nature hidden in "C:\Windows\CrouchingKokao.dll" were modified.

16:25:10 – One file in the recycling bin was modified, twenty-three more were changed in the unallocated volume.

16:35:10 – John Doe accessed the tool used to create the encrypted gpg file.

16:46:00 – "**birdpics.gpg**" was created as an encrypted file.

17:00:18 – Adobe Reader was installed on John Doe's account.

## **03/02/2005**

11:42:20 – "Df1.jpg" was sent to the recycling bin in the hidden partition. It appears to be the same as "blue\_bird2.jpg". Eleven of the modified files from the past day marked as "created in the unallocated file".

12:22:52 - John Doe downloaded "**aggressive song.wav**" to a USB Flash Drive.

14:17:42 – Doc1.doc was created and modified in “C:\Documents and Settings\johndoe\My Documents\My Music”.

15:00:19 – “**babyscot\_vyoung.jpg**” was downloaded to “C:\Documents and Settings\johndoe\My Documents\My Pictures”.

15:00:27 – “**babyscot\_2weeks1.jpg**” was downloaded to “C:\Documents and Settings\johndoe\My Documents\My Pictures”.

15:01:38 – “**177.jpg**” was downloaded to “C:\Documents and Settings\johndoe\My Documents\My Pictures”.

15:02:45 – “**ostbk2b2.htm**” was downloaded to “C:\Documents and Settings\johndoe\My Documents\”.

15:04:48 – “**birdtrans2.jpg**” was downloaded to John Doe’s Desktop directory.

15:05:03 – “**chicks2.jpg**” was downloaded to “C:\Documents and Settings\johndoe\My Documents\My Pictures”.

15:05:44 – “**newbies2.jpg**” was downloaded to “C:\Documents and Settings\johndoe\My Documents\”.

15:06:42 – John Doe downloaded “**ready2fledge.jpg**” to “C:\Documents and Settings\bob\My Documents/My Music”.

15:42:16 – Three images of bird costumes were saved to “C:\Program Files\”

## 08/02/2005

14:13:26 – John Doe received an email from Ben Forbes with three attached images.

15:35:27 – John Doe received another email from Ben Forbes with five more images.

## 09/02/2005

11:28:00 – John Doe downloaded “**birds.zip**”

13:50:37 – “**tx\_birds.exe**”, extracted from birds.zip, is a screensaver of ornithological nature. It is used multiple times both from birds.zip and “C:\WINDOWS”.

16:56:50 – “**stuf.doc**” was created and modified on the machine.

17:04:04 – Realplay.exe was used.

17:10:01 – The machine switches off for the last time.

# **2 DESCRIPTION OF INVESTIGATION**

## **2.1 JOB DESCRIPTION AND INSTRUCTIONS**

---

Abertay and Police Scotland have asked team Defective Cowboys to investigate allegations that John Doe has possessed illegal material that is considered ornithological in nature. The team will be looking to uncover images and videos of birds, which may also extend to bird related material like websites, documents, and chat related material.

The machine that was to undergo forensic investigation, was imaged. The resulting disk image was then examined by team Defective Cowboys.

## **2.2 DESCRIPTION OF RECOVERED/EXAMINED ITEMS**

---

The machine was found in powered on state, which means that volatile data could be potentially captured. Using a process called “live imaging”, an exact copy of the disk was created and securely transferred to our labs for later examination and investigation.

The image of the physical disc drive investigated by our organization had the device id of 1b12dd29-19ff-45b0-83df-3d9db7b6410d and was 5.76Gb in size. The evidence is very much relevant to the investigation and the image does not seem damaged. Thus, will be admissible as evidence in court.

When analysing the disk drive image our team uncovered images, documents, internet history, registry information and PDF and doc files. These will be referred to later in the report and will also be provided in multiple Appendices.

### **List of examined productions**

Inventory	Description	Device ID	Recovered/Examined
johnDoe.dd	Disk image file	1b12dd29-19ff-45b0-83df-3d9db7b6410d	Examined

# 3 METHODOLOGY

## 3.1 IMAGE PREPARATION

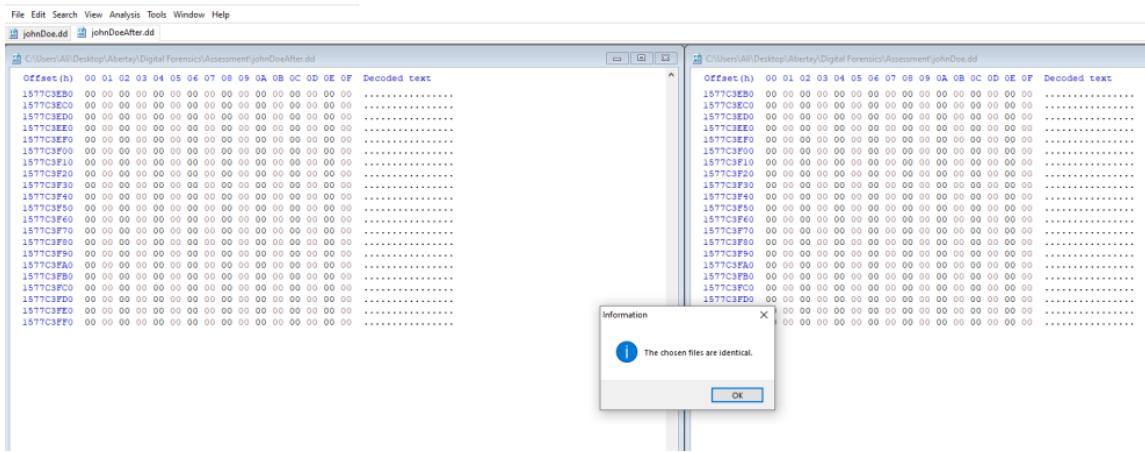
The image of the suspect's drive was received at our lab, it was then copied into an encrypted .gz archive file in order to ascertain that its unchanged state was preserved. The image was sent over a private network to ensure it would not be altered, deleted, or intercepted by a third party. To ensure that the image file was not altered, we took a checksum of the disc drive, which was an MD-5 algorithm, then compared it with the checksum D63DD1B8917CA28BAC7C955 FC3B6CD25 provided by the police team.

The hash comparison was done on HxD by going to Analysis >> Checksums, then selecting MD5 and clicking on OK to generate the checksum. The checksum (**Image 3.1.1**) proves that the image had not been altered. It can be seen at the bottom of the screen, but it should be noted due to a bug in HxD, it is not in view during the default state. So, the window needs to be clicked on and dragged up.

Checksum		
Search (0 hits)		
Results	C:\Users\Ali\Desktop\Abertay\Digital Forensics\Assessment\johnDoe.dd	Refresh
Algorithm	Checksum	Usage
MD-5	D63DD1B8917CA28BAC7C955FC3B6CD25	

**Image 3.1.1 – Generating MD5 hash in HxD.**

A copy of the disk image was compared to the one provided to us throughout the investigation. This was done to make sure the image has not been altered and all the evidence remains the same. This was done by opening the main image and the copy in HxD then going to Analysis >> Data Comparisons to compare it (**Image 3.1.2**).



**Image 3.1.2 – Comparing the hashes of the original image with the copy.**

## 3.2 PHYSICAL AND LOGICAL SEARCHING

### 3.2.1 Image analysis

The team started the physical search with an analysis of the image. To do this, a multitude of tools were utilised to gather information relating the Operating System, capacity, and partitions of the HDD (Hard Disk Drive). Part of the tools used to analyse the image were also used to gather information about the suspect and the illegal activities.

### 3.2.2 File Carving

File carving is a procedure which discovers valid files by looking at raw data and finding specific patterns. It can be used to find some files that were deleted or discover files in places they are not expected to be.

Initially, file carving was conducted with foremost – a tool used by forensic analysts to recover data from hard drives. The tool gathers all files from an image which the analysts can use for the investigation – pictures, documents (text files, PDFs, MS Word files), executables.

The team identified a lot of pictures of birds and pictures of people who may have been a part of the crime. Foremost provided content of a hidden partition within the hard drive.

Another tool used for file carving is Autopsy – it summarises all data found on an image and allows analysts to emulate and look through the file system on it. The tool also hashes all files which is useful for blacklisting purposes as well as for finding duplicates among files. The information summarised ranged from media (such as EXIF data, documents, audio files and emails) to system files, registries and even a detailed timeline of events.

### **3.2.3 Registry Analysis**

Registries are internal databases stored on the hard drive of Windows systems, which provide a large amount of useful information on the machine. It ranges from installed programs to user accounts, hardware details and removable devices plugged into the machine in the past.

Such information is highly valuable because it allows the investigators to see if any USBs or external Hard Drives have been attached before. Registries also store information about the physical state of the machine – such as when it has been in an on/off state.

Registries can be easily accessed using tools such as Forensic Registry EDitor, or even the Registry editor built into WIndows.

### **3.2.4 Browser analysis**

Three browsers were identified on the suspect's machine – Internet Explorer, Mozilla Firefox and Google Chrome. Mozilla Firefox was the only one that we could determine to be used to browse the internet, while Internet Explorer was used to locally open media.

Mozilla Firefox stores information about the browsing and download history, bookmarks, as well as 'cached' - that is recently displayed, images and web pages. This positively assisted the analysts in creating an accurate timeline of events and a proper comprehension of the suspect's activities.

### **3.2.5 Email analysis**

The analysts were able to find only two email clients on the machine – Microsoft Outlook and Mozilla Thunderbird. Of the two, the suspect had only used Mozilla Thunderbird. The browser analysis aided with research on web-based email clients, however none were found.

Mozilla Thunderbird allows the user to link multiple accounts to a single mailbox. All information is then stored in the local Application Data of the user. The two tools used during the email analysis – Autopsy and MBOX FileViewer. Autopsy loaded the data and email attachments; however, it was unable to provide an accurate timeline. MBOX FileViewer can emulate the mailbox of a user if the local inbox file is loaded into it. It provided higher accuracy in terms of received dates.

## 4 ANALYSIS

## 4.1 PRESERVATION

The analysts started off with passively gathering information about the image without accessing any of the files. First, the team dumped the Master Boot Record (MBR) with the use of a simple command line. (**Image 4.1.1**) The reason behind this is it can easily uncover information regarding how the space on the disks in the system was divided. From the dump it is visible that the suspect is likely using a Windows system, as suggested by the NTFS type of file system found (5th byte from the start of the boot record – 80 01 01 00 **07**). The rest of the boot record shows that the suspect has only one partition.

#### **Image 4.1.1 – Master Boot Record dump.**

Afterwards, the partition table is also dumped. (**Image 4.1.2**) The results of that operation show that together with the previously discovered partition, which was appropriately marked and easily accessible, there are two unallocated spaces on the disk. Sectors are the smallest ‘blocks’ that any hard drive is divided into. They are all

fixed size, and the operating systems cannot load anything smaller. Because of their fixed size, they are often used to describe the physical layout of partitions on the disk. First of the unallocated spaces start at sector 00 and end at sector 62, the second starts at 6136830 and ends at 11255327. The first space has a small chance of being used to hide something inside and was likely created by Windows, as this system automatically keeps a small unallocated space in case changes are made to the partition tables. The latter, however, is quite big - almost as big as the allocated NTFS partition. The hidden partition was further investigated in the Physical Search (4.2) and Logical Search (4.3) subsections, as it is very likely to be left intentionally and could be used to conceal files within it.

```
(kali㉿kali)-[~/Desktop/CMP209/jd]
└─$ fdisk -l johnDoe.dd
Disk johnDoe.dd: 6136830 sectors, 3038 MB
Units are in 512-byte sectors

Device      Start      End  Length   File system  Flags
/dev/disk/by-label/ 0  62  1  Primary Table (#0)
/dev/disk/by-label/ 0  62  1  Unallocated
/dev/disk/by-label/ 6136830  6136829  1  NTFS / exFAT (0x07)
/dev/disk/by-label/ 6136830  11255327  5118498  Unallocated

(kali㉿kali)-[~/Desktop/CMP209/jd]
└─$
```

Image 4.1.2 – Partition table dump.

## 4.2 PHYSICAL SEARCH

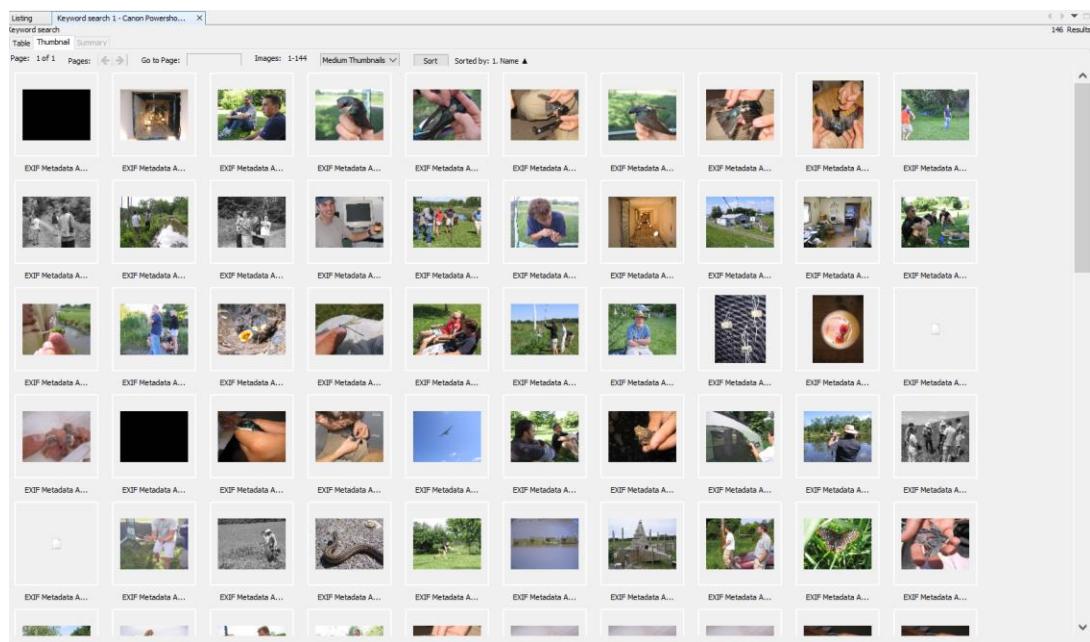
---

### 4.2.1 Images

The team managed to identify a total of one hundred and seventy-nine instances of ornithological images. This number, however, includes duplicates that were found for many files. All the illicit and questionable images, as well as indications of their duplicates are indexed in Appendix A and provided in appendices B through F. Those images were found in both the main partition as well as in the ‘unallocated’ space on the

disk. They ranged between pictures of birds in their natural habitats, birds being held by people, birds with transmitters on their backs to drawings, costumes, bird seeds, bird houses, sighting maps and hotel/restaurant ads in those sighting areas. The locations and hotels/restaurant names were passed to the authorities as other criminals may be at said locations.

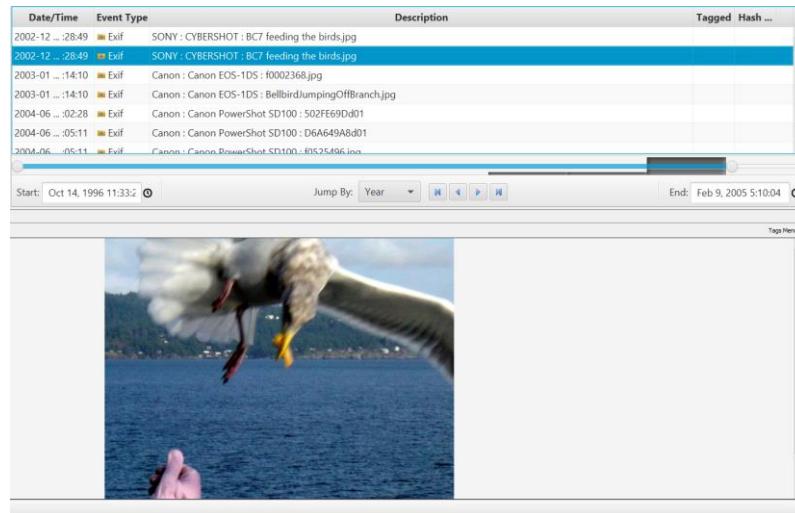
A large amount of the images comes from an unidentified source. Some of them can be recovered from the deleted files. The EXIF metadata, which holds information about the file itself, rather than the actual content, can also be extracted from several images. From this, the analysts identified that 18 of the illicit along with numerous questionable images were taken with a “Canon Powershot SD100” (Appendix A, Appendix B and Appendix F) camera in 2004. The photos taken with this camera were of birds, birds with transmitters and people in bird sighting locations. There are also photos of people making/interfering with bird houses and looking for birds. They can be found in appendices B and C.



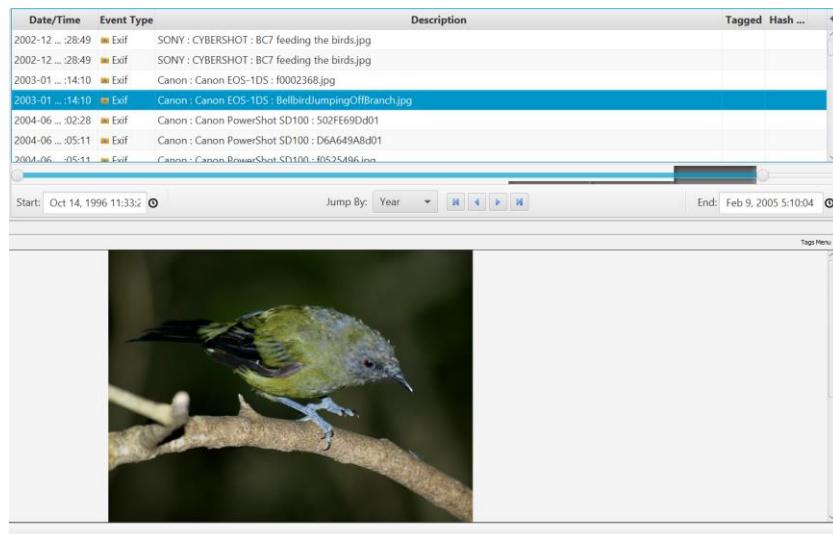
**Image 4.2.1 – Pictures taken with Canon Powershot SD100.**

Other images were identified as originating from the internet. Some of them were downloaded explicitly, while others have been sent to the suspect by Mr. Ben Forbes as part of a mutual exchange of illicit images. The analysts identified that some of the images sent by Mr. Ben Forbes were taken with “Canon EOS-1DS” (Appendix D) and

“Sony Cybershot” (Appendix E) cameras in 2002 and 2003, respectively. The contents of the relevant email messages and list of attached images can be found in Appendix I.



**Image 4.2.2 – Picture taken with Sony Cybershot.**



**Image 4.2.3 – Picture taken with Canon EOS-1DS.**

## 4.2.2 Audio files

The analysts identified a total of three audio files in relation with the accusations of the suspect. All three were downloaded through the Mozilla Firefox browser as their

artifacts exist in the browsing history (kakapo.ram and dawn.ram) and the download history (dawn.ram and aggressive\_song.wav) of the software. Both history files can be found in the Application Data folder of the Firefox browser (Application Data/Mozilla/Firefox/Profiles) in a MorkDB format. (Appendix G and Appendix H)

“Kakapo.ram” and “dawn.ram” were both accessed through the suspect’s browser on the 2<sup>nd</sup> of Feb 2005 at 15:11:41 and 15:12:06 GMT. Ram is an extension used by RealMedia Player and is used to play audio data through the web. Both were linked to a .rmd file hosted at “<http://audio.pbs.org/songs>”. The audio files contain the songs of the Dawn bird, as well as the Kakapo, which is a rare species of parrots in New Zealand. The other audio file was saved as “aggressive\_song.wav”, which is a Waveform file. The file was downloaded from “[http://whyfiles.org/shorties/104chick\\_sex/images/aggressive\\_song.wav](http://whyfiles.org/shorties/104chick_sex/images/aggressive_song.wav)”. Later, the same file was copied to “C:\Program Files/MSN” which makes it accessible to all users. The copy occurs on the 9<sup>th</sup> of Feb 2005 at 17:00:20 GMT.

## 4.3 LOGICAL SEARCH

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### 4.3.1 Registry Analysis

During the examination of the registry, the analysts used a Linux tool called fred (Forensic Registry Editor). The tool allows an analyst to look through the registries and extract useful information from them.

The first thing that the team did was look through the “SAM” hive - or part of the database. “SAM” stands for System Account Manager and it holds data regarding the groups, user accounts, etc. The analysts identified three accounts that were not system accounts and belonged to human users of the machine – ‘johndoe’, ‘jane’ and ‘bob’. Mr. John Doe’s account was created on the 24<sup>th</sup> of January 2005 together with the system accounts. Jane and Bob’s accounts were created on the 2<sup>nd</sup> of February with almost two and a half hours delay between the creations. (**Image 4.3.1.1**)

Administrator	2005/01/24 16:10:13
bob	2005/02/02 15:08:39
Guest	2005/01/24 16:10:13
HelpAssistant	2005/01/24 15:37:21
jane	2005/02/02 12:36:29
johndoe	2005/01/24 15:56:49
SUPPORT_388945a0	2005/01/24 15:42:04

**Image 4.3.1.1 – List of user accounts and creation dates.**

Afterwards, the team looked through the “system” hive. That hive stores information about the machine as a whole – mounted devices, connected USBs, partitions of the disks and many more. From it the analysts identified a lot of crucial information. To begin with, a USB Flash Drive was present in the USBSTOR node, meaning that one has been connected to the machine and is a possible source of evidence. Later, the team found out (using Autopsy and fred), that the USB Flash Drive was made by Phison Electronics and marked in the system as Drive E. The “MountedDevices” node was used to determine the letter assigned to that USB device, as well as indicated, that there also is a CD-Rom Drive (that was likely used to install Windows to the hard drive) and two partitions – Drive C and Drive F. (**Image 4.3.1.2**) Further investigation proved that what was labeled as Drive F became the unallocated partition seen on **Image 4.1.2.**, likely in an attempt to conceal its existence or contents. Lastly, the analysts found the last shutdown time of the machine inside the Windows node – 9<sup>th</sup> of February 2005 at 17:10:01 GMT.

\DosDevices\A:	REG_BINARY 5c 00 3f 00 3f 00 5c 00 46 00 44 00 43 00 23 00 47 00 45 00 4e 00 45 00 52 00 49 00 43 00 5f 00 46 00
\DosDevices\C:	REG_BINARY b8 dd b8 dd 00 7e 00 00 00 00 00 00
\DosDevices\D:	REG_BINARY 5c 00 3f 00 3f 00 5c 00 49 00 44 00 45 00 23 00 43 00 64 00 52 00 6f 00 6d 00 53 00 4f 00 4e 00 59 00 !
\DosDevices\E:	REG_BINARY 5c 00 3f 00 3f 00 5c 00 53 00 54 00 4f 00 52 00 41 00 47 00 45 00 23 00 52 00 65 00 6d 00 6f 00 76 00 6
\DosDevices\F:	REG_BINARY b8 dd b8 dd 00 fc 47 bb 00 00 00 00

**Image 4.3.1.2 – List of Mounted Devices.**

Looking through the “software” and “NATUSER.DAT” hives provided the analysts with information about what software is installed on the machine and allowed to focus the investigation specifically on the suspect’s account. A few applications stood out – Windows Privacy Tools (Which is a tool that can be used to encrypt files, rendering it unreadable without the correct secret, decryption key), Mozilla Firefox (browser), Mozilla

Thunderbird (mail client), RealPlayer (web audio player) and Adobe Acrobat Reader (PDF Viewer).

### 4.3.2 Hidden Partition

The team accessed the big ‘unallocated’ part of the disk using Autopsy and found hidden images and documents. The analysts identified a total of twenty-two images of ornithological nature, and a document titled guide.doc, a Microsoft Word document containing a thorough guide about “Enjoying your first birding field trip” (Appendix K). An additional image was found in the recycling bin with the info file claiming that it was from “Drive F”, which confirms that this ‘unallocated’ space is a direct result of deliberate attempt to hide its contents, by making it appear to be empty and unused, to every user of the system, as well as to the operating system itself.

### 4.3.3 PDF, Documents and Hidden Files

The analysts identified a multitude of documents of ornithological nature in the suspect’s drive. Three PDF files (**Image 4.3.3.1**) were found in the recycling bin of “Drive C”. The team managed to identify that all of them were from the USB Flash Drive before the suspect deleted them. Three more PDF files were identified through file carving with Autopsy, all of which were of ornithological nature. An additional PDF was found in the Windows Privacy Tools directory providing a thorough guide on how to encrypt and decrypt files with the tool.

```
:\\Documents and Settings\\johndoe\\My Documents\\BirdingGuide.pdf  
C:\\Documents and Settings\\johndoe\\My Documents\\BirdingGuide.pdf  
:\\Documents and Settings\\johndoe\\My Documents\\news_sprg2001.pdf  
C:\\Documents and Settings\\johndoe\\My Documents\\news_sprg2001.pdf  
:\\Documents and Settings\\johndoe\\My Documents\\57ab_perth.pdf  
C:\\Documents and Settings\\johndoe\\My Documents\\57ab_perth.pdf
```

#### **Image 4.3.3.1 – Deleted PDF files.**

A file called “birdwatching.doc” was found within “Drive C” in the image, meaning that all users had access to it. The file provided a guide on birdwatching in Thailand.

“Doc1.doc” was found in “My Music” directory of the suspect. It appears empty but the file size was too big. The team ran foremost on the document and identified a hidden picture of ornithological nature inside. (**Image 4.3.3.2**) Two more files of interest were identified – “stuf.doc” and “Dear Fred.doc”. The former provides information regarding a conversation between the accused and an anonymous figure. It can be assumed that this figure is Mr. Ben Forbes, as he and the suspect have distributed bird pictures between each other. The latter is a message from Mr. Bob to an individual named Fred, however this message was not found to be of relevance to this case.

```
(kali㉿kali)-[~/Desktop]
$ foremost Doc1.doc
Processing: Doc1.doc
|*|
(kali㉿kali)-[~/Desktop]
$ cd output
(kali㉿kali)-[~/Desktop/output]
$ ls -alt
total 20
drwxr-xr-- 4 kali kali 4096 Apr 25 06:04 .
-rw-r--r-- 1 kali kali 717 Apr 25 06:04 audit.txt
drwxr-xr-- 2 kali kali 4096 Apr 25 06:04 ole
drwxr-xr-- 2 kali kali 4096 Apr 25 06:04 jpg
drwxr-xr-x 6 kali kali 4096 Apr 25 06:04 ..
(kali㉿kali)-[~/Desktop/output]
$ cd jpg
(kali㉿kali)-[~/Desktop/output/jpg]
$ ls
00000010.jpg
```

**Image 4.3.3.2 – Running foremost on Doc1.doc.**

“nestboxtips.txt” is a file found in the suspect’s “My Documents” directory. It provides tips on how to make nest boxes for the spring/summer period. Another directory can be found in “My Documents” which seems to be a directory (aa010703a\_files) containing the files of a website which the accused downloaded on the 2<sup>nd</sup> of February 2005 at 14:26:00. Additional files were downloaded roughly two hours later. The main website file can be accessed from “My Documents/aa010703a.htm”

Contents of all documents of interest can be found in Appendix K.

One more file can be noted – “FontailFrontView.exe”. It can be found in “C:\WINDOWS\mui” and it appears to be a jpg image with an extension mismatch. This proves that the accused made more attempts to hide files of ornithological nature. (Appendix A – index 24, Appendix F)

#### 4.3.4 Encrypted Files

Multiple encrypted files were found on the suspect's machine. Most of them were password locked deleted PDF files. However, the team was unable to crack the password for them nor identify their initial location and when were they deleted.

Another encrypted file was found in John Doe's documents in the main partition – birdpics.gpg. To crack it, the analysts had to obtain secring.gpg, a key without which the file cannot be decrypted. The file was stored in the “C:\Documents And Settings\johndoe\Application Data\GnuPG\” directory. It was extracted from an image loopback then converted to secring.jtr to crack the password. Afterwards, the key is imported to the analyst's machine. (**Image 4.3.4.1**)



KALI  
BY OFFENSIVE SECURITY

```
(kali㉿kali)-[~/Desktop/1949-GnuPG]
└─$ ls -alt
total 40
drwxr-xr-x 2 kali kali 4096 Apr 23 07:49 .
drwxr-xr-x 5 kali kali 4096 Apr 23 03:45 ..
-r----- 1 kali kali 0 Apr 21 03:50 trustdb.gpg
-r----- 1 kali kali 2816 Apr 21 03:50 trustdb.gpg-slack
-r----- 1 kali kali 2863 Apr 21 03:50 secring.gpg-slack
-r----- 1 kali kali 1233 Apr 21 03:50 secring.gpg
-r----- 1 kali kali 608 Apr 21 03:50 random_seed
-r----- 1 kali kali 3009 Apr 21 03:50 pubring.gpg-slack
-r----- 1 kali kali 1808 Apr 21 03:50 pubring.gpg
-r----- 1 kali kali 3009 Apr 21 03:50 pubring.bak-slack
-r----- 1 kali kali 1807 Apr 21 03:50 pubring.bak
-r----- 1 kali kali 0 Apr 21 03:50 gpg.conf.old
-r----- 1 kali kali 0 Apr 21 03:50 gpg.conf
-r----- 1 kali kali 0 Apr 21 03:50 gpg.conf
(kali㉿kali)-[~/Desktop/1949-GnuPG]
└─$ gpg2john secring.gpg > secring.jtr
File secring.gpg
(kali㉿kali)-[~/Desktop/1949-GnuPG]
└─$ ls
gpg.conf.gpg.old pubring.bak pubring.bak-slack pubring.gpg pubring.gpg-slack random_seed secring.gpg secring.gpg-slack secring.jtr trustdb.gpg trustdb.gpg-slack
(kali㉿kali)-[~/Desktop/1949-GnuPG]
└─$ john secring.jtr --show
john:john:::johndoe <johndoe@example.com>::secring.gpg
1 password hash cracked, 0 left
(kali㉿kali)-[~/Desktop/1949-GnuPG]
└─$ gpg --import secring.gpg
gpg: key 595A1B00B1D70130: "johndoe <johndoe@example.com>" not changed
gpg: key 595A1B00B1D70130: secret key imported
gpg: Total number processed: 1
gpg:                               unchanged: 1
gpg:                               secret keys read: 1
gpg:                               secret keys unchanged: 1
```

**Image 4.3.4.1 – Cracking the password with JohnTheRipper and importing key.**

After the key was imported, the analysts successfully decrypted the file and found out it contains an archive. Extracting the archive exports five images. Using foremost on the archive proves that all five files are pictures originating from the USB Flash Drive (E:\). (**Image 4.3.4.2**) All of the images found in the decrypted archive were indexed in appendix A and can be found in appendix F.

```

(kali㉿kali)-[~/Desktop]          birdpics.gpg
└─$ gpg -d birdpics.gpg > birdpics.dat
gpg: encrypted with 1792-bit ELG key, ID 00061728D3A19CCC, created 2005-02-02
      "johndoe <johndoe@example.com>"

(kali㉿kali)-[~/Desktop]
└─$ file birdpics.dat
birdpics.dat: Zip archive data, at least v0.0 to extract

(kali㉿kali)-[~/Desktop]
└─$ mv birdpics.dat birdpics.zip

(kali㉿kali)-[~/Desktop]
└─$ unzip birdpics.zip
Archive: birdpics.zip
  extracting: E:\birds\birdpics\WhiteThroatedSparrowInTree.jpg
file #2: bad zipfile offset (local header sig): 552521
file #3: bad zipfile offset (local header sig): 614204
file #4: bad zipfile offset (local header sig): 803177
file #5: bad zipfile offset (local header sig): 984533
birdpics.zip  D:\archivedoc

(kali㉿kali)-[~/Desktop]
└─$ foremost birdpics.zip
Processing: birdpics.zip
|foundate=E:\birds\birdpics\WhiteThroatedSparrowInTree.jpg♦♦♦♦
foundate=E:\birds\birdpics\WhoopingCranes.jpg♦♦♦♦
foundate=E:\birds\birdpics\yellow-wag-cover-nb.jpg♦♦♦♦
foundate=E:\birds\birdpics\WhiteFrontedParrot.jpg♦♦♦♦
foundate=E:\birds\birdpics\WhiteFacedHeronFlying.jpg♦♦♦♦
*|

```

**Image 4.3.4.2 – Decrypting the gpg file.**

### 4.3.5 Emails

The analysts recovered four emails from the mailing client of the suspect. Three of them were from Mr. Ben Forbes. Some of those emails had illicit ornithological images attached to them. The fourth one was sent from a bird related mailing list. The team also identified that the password of the mailing client is the same as the password used to encrypt birdpics.gpg. It was stored locally in the Application Data directory, encoded in Base64 (YXJyYW4= - arran). The linked email account was “jdoe@example.com”. The analysts first checked them through Autopsy, but the dates were inaccurate, another piece of software called MBOX Viewer proved more helpful in recovering correct time information. (**Image 4.3.5.1**) The team could not identify any sent or deleted mail.

✉️	ben@example.org	good pics	jdoe@example.com	2/9/2005 12:08:01 PM	2/8/2005 2:13:26 PM	155
✉️	mailinglist@birds.example....	How to Identify Birds	jdoe@example.com	2/9/2005 12:08:01 PM	10/16/2004 6:51:39 PM	2
✉️	ben@example.org	some more good ones	jdoe@example.com	2/9/2005 12:08:01 PM	2/8/2005 3:35:27 PM	530
✉️	ben@example.org	expensive birds	jdoe@example.com	2/9/2005 12:08:01 PM	10/15/2004 6:51:39 PM	1

**Image 4.3.5.1 – Received emails.**

On 15<sup>th</sup> of October 2004 at 18:51:39 GMT, Mr. John Doe received an email from Mr. Ben Forbes (“ben@example.org”), the subject of which was “expensive birds”. The email consisted of a joke about an expensive parrot being eaten. (Appendix I – Image 1)

On Saturday 16<sup>th</sup> of October 2004 at 18:51:39 GMT, Mr. John Doe received an email from a mailing list called “Bird Fanciers” (“mailinglist@birds.example.com”). It provides a detailed guide on bird identification. (Appendix I – Image 2)

On Tuesday 8<sup>th</sup> of February 2005 at 14:13:26 GMT, Mr. John Doe received another email from Mr. Ben Forbes with the subject being “good pics”. The email has a short message stating that Forbes believes that the suspect would enjoy the attached images. The first attachment is named “7EYBTELF1KAN.jpg” and is an image of two parrots in a white cage. The second attachment, “IMG\_3937\_filtered.jpg”, is an image of a blue bird on a tree branch. The last attachment, “cute\_penguin.jpg”, appears to be an image of balloons shaped as a penguin. (Appendix I – Images 3 & 4) (Appendices A and F with indexes 36, 22, 14 respectively)

On Tuesday 8<sup>th</sup> of February 2005 at 15:35:27 GMT, the accused received another email from Forbes titled “some more good ones”. In the email Mr. Ben Forbes thanks John for he sent him then sends some which he personally likes. This exchange, together with illicit attachments being found in email conversation between the suspect and Mr Forbes, shows that both individuals are knowingly involved in not only owning but also distributing illegal ornithological material. A total of 5 images were attached to this email, all of which were images of birds. (**Image 4.3.8**) (Appendix I – Image 5 & 6)



**Image 4.3.8 – Attachments from email.**

#### **4.3.6 Firefox Bookmarks**

Three bookmarks were identified in the local browsing cache inside the Application Data directory of John Doe's account. All of them are related to this case – “Free Bird Wallpaper - Bald Eagle Albatross Owl Falcon 1024x768”, “Alphabetical Index of Birds” and “Chickadee Karaoke” (Appendix J – Bookmarks). Those bookmarks imply that Mr. John Doe knew about those sites and wanted to keep their web addresses.

#### **4.3.7 Firefox Browsing History**

The analysts found the browsing history of the accused. It was stored in the “C:Documents And Settings\johndoe\Application Data\Mozilla\Firefox\Profiles”. The file is called history.dat and uses MorkDB format to store the history data. (Appendix G) A script was used to convert it to a human readable format then the data stamps were decoded as they were stored as Unix Time Stamps, which are hard to interpret by a human, without doing mathematical operations.

The browser was first launched on the 24<sup>th</sup> of January 2005 when the suspect downloaded the Mozilla Thunderbird client. More history essential to this case is on the 2<sup>nd</sup>, 3<sup>rd</sup> and 9<sup>th</sup> of February 2005.

On the 2<sup>nd</sup> of February, the suspect searched for the keyword “birds” in Google. Shortly after he opens a page “www.pbs.org” which contains audio files. A page ad, possibly about birds, lead the suspect to an Amazon webpage with the keyword “birds” in the book section. John Doe spent roughly one minute on the website during which he checked two books – “Garden Birds (Collins Gem) Paperback – 12 April 2012 by Stephen Moss”, and “The Secret Lives of Garden Birds Paperback – Illustrated, 30 April 2004 by Dominic Couzens”.

After leaving Amazon.co.uk, the suspect searched for bird wallpapers in google which led him to “www.naturewallpaper.net”. The accused remained on that website from 14:15:51 until 14:18:45 browsing through different subpages and images.

A minute later Mr. John Doe clicked on an ad which led to “uk.shop.com” with ‘bald eagle’ as a search keyword. This led him to a web page of a website possibly selling a

video named “Choices Direct Movies: Bird Safari Bird Watcher’s Paradise”. The web page selling the video cannot be accessed as the analysts are redirected to the main webpage.

Later, Mr. John Doe conducted another search in Google about “bird stories” at 14:22:25 GMT. The search led him to a website called “about.com”, where he stayed until 14:26:43 GMT. This specific website does not exist anymore. However, the analysts identified an enormous number of common keywords between the details of the website and the documents in aa010703aa\_files. There is a high possibility that this is the website which the suspect saved to the hard drive.

Another page ad led Mr. John Doe to a website called “haiths.com”. This is a commerce website which sells bird food, nests, accessories, baths and feeders. Mr. John Doe spent around two minutes on this website.

Ten minutes later the suspect looked up the movie “The Birds” on IMDB and “videodetective.com”. After this the suspect spent a lot of time browsing the news page of BBC then went back to “pbs.com” at 15:11:41 GMT accessing kakapo.ram (missing from download history) and dawn.ram. (Refer to subsection 4.2.2 Audio Files) (Appendix G and Appendix H).

The browsing history during the 2nd of February ends with the suspect accessing the download webpages of the Windows Privacy Tools at 15:57:51 GMT (missing from download history) and Adobe Acrobat Reader at 16:53:13 GMT.

The history on the 3<sup>rd</sup> of February is much shorter. The suspect searched for “bird mating calls” and “young chicks” on Google and downloaded a multitude of files – images, one .htm file (Refer to appendix K) and a .wav file. (Refer to subsection 4.2.2 Audio Files).

On the 9<sup>th</sup> of February, the suspects searched for bird wallpapers and downloaded a file called birds.zip from “traveltex.com”. This specific file is missing from the image, but the executable and screensaver files remain in C:\WINDOWS\”.

#### **4.3.8 Download History**

The analysts managed to obtain a log of the Firefox download history located in the “C:\Documents And Settings\johndoe\Application Data\Mozilla\Firefox\Profiles\w4nf3obl.default” directory (Appendix H). The log showed a multitude of ornithological material and software which the suspect used being downloaded to the machine.

On Wednesday, 2<sup>nd</sup> of February 2005, the suspect downloaded two files:

- 15:12:09 GMT a 1KB file hosted on “pbs.org”. It is named “dawn.ram” and is saved in the TEMP directory with a reduced size of 34B. The file has a link to a .rmd file hosted at “<https://www.pbs.org/lifeofbirds/songs/dawn.rmd>”, containing audio of “the dawn bird song”.
- 16:53:20 GMT, an executable file was downloaded from Adobe’s website. The file is saved to the suspect’s Desktop. It still exists in that location and it was used to install Adobe Acrobat Reader, which the suspect used to open PDF files.

On Thursday, 3<sup>rd</sup> of February 2005, the suspect downloaded a total of nine files onto the machine:

- 12:22:52 GMT – a 716KB “aggresive\_song.wav” file hosted at “[http://whyfiles.org/shorties/104chick\\_sex/images/aggressive\\_song.wav](http://whyfiles.org/shorties/104chick_sex/images/aggressive_song.wav)”. It is saved onto the “Drive E:” which is a removable USB Flash Storage. The website itself is not accessible anymore, however, the file was also found in the “C:\Program Files\MSN” directory. It appears to be an 8 second audio recording of bird sounds.
- 15:00:19 GMT and 15:00:27 GMT – two images called “babyscot\_vyoung.jpg” (38KB) and “babyscot\_2weeks1.jpg” (33KB), both of which were downloaded from the same website – “<http://freespace.virgin.net/cobbler.budgies/images/>”. (Appendix A – indexes 19 and 20, Appendix F) The former features three featherless birds near three unhatched eggs and two arrows pointing at them. The latter presumably features the same three birds at the age of two weeks. Both images are saved in the “My Pictures” directory of John Doe’s account.
- 15:01:38 GMT – a 9KB image called “177.jpg” from “<http://www.insaneanimals.com/items/>” and is also saved in the “My Pictures”

directory. (Appendix A – index 40, Appendix F) The image can still be found in that location. It features a young yellow chick next to an egg with captions reading “Everyone says you’re too young for me”.

- 15:02:45 GMT – a 4KB .htm file from “<http://www.cvm.okstate.edu/instructions/kocan/ostrich/>” called “ostbk2b2.htm”. It is saved to Doe’s “My Documents” directory and it still exists there. The file is a web page providing a guide on how to take care of birds from small chicks to adulthood. (Appendix K – HTML Documents)
- 15:04:48 GMT, 15:05:03 GMT, 15:05:44 GMT, 15:06:42 GMT – four images (54KB, 38KB, 58KB and 77KB respectively) from “<http://people.cornell.edu/pages/sah67/>” called “newbies2.jpg”, “chicks2.jpg”, “birdtrans2.jpg” and “ready2fledge.jpg” were downloaded. (Appendix A – indexes 4, 5, 16 and 18 respectively, Appendix F) The first image is saved to the suspect’s Desktop directory and it still appears to exist there. It appears to be an image of a bird being held by the wings by a man. The bird has something on its back which looks like a tracker. The other two images are saved to “My Pictures” and “My Documents” respectively, both still exist and remain the same size. They appear to be images of five and 4 newly-hatched birds respectively. It is possible that they are the same birds. The last image was downloaded to the “My Music” directory of Bob’s account. The image still exists there with the same file size and appears to be an image of a group of young birds. The file download being contained in this history file proves that John Doe downloaded the file into that location and not Bob.

#### 4.3.9 Software Prefetch Analysis

Software prefetch is a technique used by the operating system to speed up its operation, it will create an entry for executable files run for the first time from a location.

The prefetch analysis was conducted in Autopsy. (**Image 4.3.9**) Some of the software used by the suspect proves that he was interactive with ornithologically related media and documents and that he may have attempted to cover their actions.

Adobe Acrobat Reader is a piece of software used to open PDF files. It was used to access the PDF files which were found on the suspect's drive.

RealPlayer is used to open .ram files. Only two such files were present on the drive and both were songs of birds, confirming that the suspect has opened those files.

Windows Privacy Tools (WinPT) and GnuPG are tools used to encrypt and decrypt data. The presence of **birdpics.gpg** is a proof that the suspect tried to hide images by encrypting them.

Two instances of prefetch data for tx\_birds.exe were found. This shows that the file was run two different times – once directly from birds.zip and once from “WINDOWS” directory on “Drive C”, confirming that the suspect has interacted with this file.

2005-02 ... :03:38	Program	EXPLORER.EXE : : Prefetch File
2005-02 ... :03:45	Program	WUAUCLT.EXE : : Prefetch File
2005-02 ... :03:45	Program	TBMON.EXE : : Prefetch File
2005-02 ... :03:47	Program	REALSCHED.EXE : : Prefetch File
2005-02 ... :03:49	Program	WINPT.EXE : : Prefetch File
2005-02 ... :03:50	Program	READER_SL.EXE : : Prefetch File
2005-02 ... :03:52	Program	GPG.EXE : : Prefetch File
2005-02 ... :04:26	Program	WINDOWS-KB890830-V1.1-ENU.EXE : : Prefetch File
2005-02 ... :04:29	Program	MRT.EXE : : Prefetch File
2005-02 ... :04:35	Program	THUNDE~1.EXE : : Prefetch File
2005-02 ... :19:35	Program	MMC.EXE : : Prefetch File
2005-02 ... :26:29	Program	FIREFOX.EXE : : Prefetch File
2005-02 ... :28:27	Program	TX_BIRDS.EXE : : Prefetch File

**Image 4.3.9 – Prefetch data from Autopsy.**

## 5 CONCLUSION

During the investigation, the analysts identified a total of 179 illicit images, including duplicate files. They ranged from bird pictures, pictures of costumes, cartoon pictures, bird houses, seeds, as well as humans interfering with the habitat of birds and birds themselves.

A long-term contact between Mr. John Doe and Mr. Ben Forbes has been identified throughout the analysis. The contact has been established through emails, which were used to distribute images of birds between both individuals and comedic messages in relation to birds. However, due to the lack of sent mail data, we cannot ascertain that the suspect has in fact distributed illicit images, even though it was implied in the conversation between him and Mr. Forbes.

John Doe has also accessed a lot of websites providing information about bird-related books, guides and movies, from which he has downloaded many illicit files. A multitude of the accessed websites hosted images and audio files of ornithological nature. One of the websites was a shop for bird accessories, food, cages etc., together with guides on how to take care of baby birds, indicating a possibility of the suspect having plans to keep birds. Many files found also indicated that the suspect might be interested in engaging in bird watching himself.

The suspect has made many attempts to hide all the bird-related files indicating that they were fully aware of being in possession of said files and their illegal nature. One of said attempts is to hide images and documents by hiding a partition, disguising it as an unallocated, empty space, which was achieved through editing the partition table of the hard drive. Other attempts at hiding illicit files involved hiding images within other files, changing and mismatching their file type extension as well as encrypting archives with illicit images. Mr. John Doe has also deleted files, saved some to a removable USB flash drive.

To conclude, the investigation was able to identify many illegal files obtained and kept in possession by the suspect. The suspect has also attempted to hide those files, indicating that they were aware of their illegal nature. The suspect has been in contact with Mr. Ben Forbes, from whom he has received multiple illegal images. While we were

unable to find evidence for it, their exchange implies that the suspect has at some point shared illegal material with Mr. Ben Forbes as well.

# APPENDICES

## APPENDIX A – INDEXED LIST OF ILLICIT IMAGES FOUND

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### Images Found on C: Drive

Index	File name	File path	Comment	MD5 Hash	index of duplicates
1	wbpremium_s.jpg	C:\Documents and Settings\johndoe\My Documents\My Pictures\wbpremium_s.jpg	image of bird food	0a0b1ae300588ed9d852cc6a38c2ee70	-
2	tn_duck_3.jpg	C:\Documents and Settings\johndoe\My Documents\My Pictures\tn_duck_3.jpg	image of a bird	526e5d096bbfc21f593dd2f0b5bcbd6e	-
3	snow_geese.jpg	C:\Documents and Settings\johndoe\My Documents\My Pictures\snow_geese.jpg	image of many birds	55cc22374dd67183a02b2b17d343386	-
4	newbies2.jpg	C:\Documents and Settings\johndoe/My Documents\newbies2.jpg	image of many birds	a2ef1f75882f955a1e41b77e8a593a0e	-
5	ready2fledg_e.jpg	C:\Documents and Settings\bob\My Documents\My Music\ready2fledge.jpg	image of many birds	25ba487aeb9ae11a3adb64e4fb32414b	-
7	image_0.jpg	C\Documents and Settings\johndoe\My Documents\My Music\Doc1.doc\image_0.jpg	image of a bird hidden inside the header of a word document	864459aedb0450e30cf384c81d470153	24
8	glfs-storm-8 birds.jpg	C:\Documents and Settings\johndoe\Application Data\Thunderbird\Profiles\8jqr8v.default\Mail\Local Folders\Inbox\glfs-storm-birds.jpg	image containing birds	e1e504e73c0c2944fafc2f45db0ded37	-
9	gawall8.jpg	C:\Documents and Settings\johndoe\Application Data\Thunderbird\Profiles\8jqr8v.default\Mail\Local Folders\Inbox\gawall8.jpg	image of a bird	80bcd2179290c3e87c8505b1d1d991a5	-

10	frankbeecostume_1827_96360352	C:\Program Files\frankbeecostume_1827_96360352	image of a bird-costume	7dc714fe905bafbccaca1c333f4aa35fb	-
11	frankbeecostume_1827_84985892	C:\Program Files\frankbeecostume_1827_84985892	image of a bird-costume	75d03c25d9397282689016b0a3d7bbc5	-
12	frankbeecostume_1827_34457581	C:\Program Files\frankbeecostume_1827_34457581	image of a bird-costume	210527d0c5ff1214b78f95a72b49f512	-
14	cute_penguin.jpg	C:\Documents and Settings\johndoe\Application Data\Thunderbird\Profiles\8jqrt8v.default\Mail\Local Folders\Inbox\cute_penguin.jpg	image of a balloon animal looking, presumably a penguin	915b8be5369cccd6b7cc1278eed00b413	-
15	colorful-birds.jpg	C:\Documents and Settings\johndoe\Application Data\Thunderbird\Profiles\8jqrt8v.default\Mail\Local Folders\Inbox\colorful-birds.jpg	image of birds	b1e81a55793382729364646680d51010	-
16	chicks2.jpg	C:\Documents and Settings\johndoe\My Documents\My Pictures\chicks2.jpg	image of birds	5b3fa4e2e40a5b50e7563612725e19ea	142,167
17	brd_WoodDuck.jpg	C:\WINDOWS\CrouchingKokako.dll\brd_WoodDuck.jpg	image of a bird	296531879159ce77999f1c8af6d1e92a	-
18	birdtrans2.jpg	C:\Documents and Settings\johndoe\Desktop\birdtrans2.jpg	image of a bird	25f12c1dbb64575b56a92bdcadc88ade	134,173
19	babyscot_vyoung.jpg	C:\Documents and Settings\johndoe\My Documents\My Pictures\babyscot_vyoung.jpg	image of a bird	e3273c1494f601e2e4378580ca76a1ec	145,160
20	babyscot_2weeks1.jpg	C:\Documents and Settings\johndoe\My Documents\My Pictures\babyscot_2weeks1.jpg	image of birds	c14916d4a3c790e80e65232dc8e9a707	144,178
21	WB01297_.GIF	C:\Program Files\Microsoft Office\CLIPART\PUB60COR\WB01297_.GIF	drawing of a bird	86dc0e2f942cfb062a8bcb3c0f3e208d	-
22	IMG_3937_filtered.jpg	C:\Documents and Settings\johndoe\Application Data\Thunderbird\Profiles\8jqrt8v.default\Mail\Local Folders\Inbox\IMG_3937_filtered.jpg	image of birds	7da33af8e6ba203e1a4f52f960b7151e	-
23	Firefox	C:\WINDOWS\Firefox Wallpaper.bmp	image of birds	c57ffe125ad	-

	Wallpaper.b mp			aa520c26be 8a410ba942 1	
24	FantailFront View.exe	C:\WINDOWS\mui\FantailFrontView.exe	image of a bird	864459aedb 0450e30cf38 4c81d47015 3	7
25	CrouchingK okako.jpg	C:\WINDOWS\CrouchingKokako.dll\Crouc hingKokako.jpg	image of a bird	fa463d5035f 0ed111ac59c 7f8856d404	-
26	ChestnutMa ndibledTouc an.jpg	C:\WINDOWS\CrouchingKokako.dll\Chest nutMandibledToucan.jpg	image of a bird	db5480ccb1d bbad7ad245 629cfa80e0	-
27	CanadaGoo seWashing.j pg	C:\WINDOWS\CrouchingKokako.dll\Canad aGooseWashing.jpg	image of a bird	7cace0aee77 031856c1dc6 28b4c0c826	-
28	CanadaGoo se.jpg	C:\WINDOWS\CrouchingKokako.dll\Canad aGoose.jpg	image of a bird	b7a84aa1ed 0763fbe8d5 2b386c3d13 e	-
29	BrushTurkey Perching.jpg	C:\WINDOWS\CrouchingKokako.dll\Brush TurkeyPerching.jpg	image of a bird	55bd5a13fd9 663b481bce 7f066cbb32c	-
30	Brolga.jpg	C:\WINDOWS\CrouchingKokako.dll\Brolga .jpg	image of a bird	e44460b1be 9072794611 dbdd64d319 c9	-
31	BC7 feeding the birds.jpg	C:\Documents and Settings\johndoe\Application Data\Thunderbird\Profiles\8jqr8v.default\ Mail\Local Folders\Inbox\BC7 feeding the birds.jpg	image of a bird	f23c5e544e0 8726e9228c a915882976f	-
32	B6E0589Dd 01	C:\Documents and Settings\johndoe\Application Data\Mozilla\Firefox\Profiles\w4nf3obl.defa ult\Cache\B6E0589Dd01	image of a bird	272680b666 195514af542 3d3db92343 e	-
33	B2906B79d 01	C:\Documents and Settings\johndoe\Application Data\Mozilla\Firefox\Profiles\w4nf3obl.defa ult\Cache\B2906B79d01	slideshow of images (has birds)	b5c9dc89fecf 86bdd9dc64 af71480b93	-
34	8FF8EA93d 01	C:\Documents and Settings\johndoe\Application Data\Mozilla\Firefox\Profiles\w4nf3obl.defa ult\Cache\8FF8EA93d01	slideshow of images, containing an image of birds	4f07e7beeb9 e80e2e3687 1a25b4704c 8	-

		C:\Documents and Settings\johndoe\Application Data\Mozilla\Firefox\Profiles\w4nf3obl.default\Cache\83E8FA9Dd01	slideshow of images, containing image of birds	0686a139d8947a05ec795ae497cb2ae0	-
		C:\Documents and Settings\johndoe\Application Data\Thunderbird\Profiles\8jqrt8v.default\Mail\Local Folders\Inbox\7EYBTELF1KAN.jpg	image of birds	cdb7d83dd80519424eb23a7e2bb48623	-
35	83E8FA9Dd01	C:\Documents and Settings\johndoe\My Documents\My Pictures\7107298.jpg	cover of "Bird safari", containing a bird	f095a5eee85aa81de775e45e481bab94	-
36	7EYBTELF1KAN.jpg	C:\Documents and Settings\johndoe\My Documents\My Pictures\40m.jpg	cover of "The birds"	b4f567dead60a8292931e12ead7911c9	-
37	7107298.jpg	C:\Documents and Settings\johndoe\Application Data\Mozilla\Firefox\Profiles\w4nf3obl.default\Cache\3328DD4Ed01	a slideshow of images, containing an image including birds	87cfa58be4bdc094db96d9f94d2905e5	-
38	40m.jpg	C:\Documents and Settings\johndoe\My Documents\My Pictures\177.jpg	image of a bird	ac192837bd a3a7b224fd259ddad99be5	-
39	3328DD4Ed01	C:\Documents and Settings\johndoe\My Documents\My Pictures\177.jpg			
40	177.jpg				

## Images Found in Decrypted Files

Index	File name	File path	Comment	MD5 Hash	index of duplicates
41	WhiteThroatedSparrowInTree.jpg	E:\birds\birdpics\WhiteThroatedSparrowInTree.jpg	image of a bird	ae5099b0789f67b971e846ea3be71cef	-
42	yellow-wag-cover-nb.jpg	E:\birds\birdpics\yellow-wag-cover-nb.jpg (birdpics.gpg)	image of a bird with "surfbird.com" connection	a3695fa7e971d3583083002107faa650	-
43	WhoopingCranes.jpg	E:\birds\birdpics\WhoopingCranes.jpg	image of birds	4d2c8828ae6ec294c9a234dc b1d7adab	-
44	WhiteFrontedParrot.jpg	E:\birds\birdpics\WhiteFrontedParrot.jpg	image of birds	501dfcb0677fe10e7cbd4e253	-

				73c23b1	
45	WhiteFaced HeronFlying. jpg	E:\birds\birdpics\WhiteFacedHeronFlyi ng.jpg	image of birds	b32e0bec9e1c 301cf826d4ef 5a13d7c	-

## Images Found in 'Unallocated ' F: Drive

Index	File name	File path	Comment	MD5 Hash	Index of duplicates
46	junescreen01.jp g	F:\junescreen01.jpg	image of a bird with "surfbird.com" connection	b86ddb90a69 02c83c0e516 d0aaa32f31	75
47	june03screen.jp g	F:\june03screen.jpg	image of a bird with "surfbird.com" connection	26ea3ed3b63 821dd6ed5d0 828696d741	76
48	brd_Ornithologi st_TWG.jpg	F:\brd_Ornithologist_TWG.jpg	image of a person holding a bird	beaaaf73518d8 e49e58f116fb d834f537	83
49	blue_bird2.jpg	F:\blue_bird2.jpg	image of a bird	91e2843f4816 2ac7a12a777 d5e4226f5	61,84
50	KeaRetrievingB akedBeanCanF romTarn.jpg	F:\KeaRetrievingBakedBeanCanFro mTarn.jpg	image of a bird	cc51364cd95f 021f7422ab2a 219966ef	71
51	KeaEatingRent alCar.jpg	F:\KeaEatingRentalCar.jpg	image of a bird	3db5fb16b446 ea0e92447cf6 399709e9	72
52	KeaAtTopOfMa cKinnonPass09 30.jpg	F:\KeaAtTopOfMacKinnonPass0930 .jpg	image of a bird	6070cdc8e0c 059ad72fd782 ac8b7f161	73
53	KeaAndMounta in.jpg	F:\KeaAndMountain.jpg	image of a bird	a46cef1fd7b9 735372e7fa07 d5f05457	74
54	ImmatureSnow yEgretTakingOf	F:\ImmatureSnowyEgretTakingOff.jp	image of a bird	eb09aea7a30 842db52a3bb	77

	f.jpg	g		6acf23442b	
55	GreenHeronOnChicagoLakeshore.jpg	F:\GreenHeronOnChicagoLakeshore.jpg	image of a bird	f393ebd21e9f30d4a75e4db4bf10dc5b	78
56	GreenHeronCloseup.jpg	F:\GreenHeronCloseup.jpg	image of ba bird	acbcef7efb3a148e050d6fe3340b4bd	79
57	GreatEgretOverflyingRoseateSpoonbills.jpg	F:\GreatEgretOverflyingRoseateSpoonbills.jpg	image of birds	ca239de832cf2a1f6084a6939ee3d405	80
58	GreatEgretInVoloBog.jpg	F:\GreatEgretInVoloBog.jpg	image of a bird	798a2db6f5695328bf8d116f2a76f99f	81
59	GreatBlueHeronWithFish.jpg	F:\GreatBlueHeronWithFish.jpg	image of a bird	5db35478fd169cf7487b1a62ec872ac4	82
60	Df1.jpg	F:\RECYCLER\S-1-5-21-725345543-854245398-1202660629-1003\df1.jpg	image of a bird	91e2843f48162ac7a12a777d5e4226f5	50,84
61	BlackVultureSunningOnPost.jpg	F:\BlackVultureSunningOnPost.jpg	image of a bird	6257f2b469c8820c6a8cf7703b9dd7c8	85
62	BlackSwan.jpg	F:\BlackSwan.jpg	image of a bird	64302e831dc5ddb8c9a0e75781d5c76f	86
63	BlackNeckedStiltsFromBehind.jpg	F:\BlackNeckedStiltsFromBehind.jpg	image of birds	e08381661fdb2f06e0c15b599dcad571	87
64	BellbirdJumpingOffBranch.jpg	F:\BellbirdJumpingOffBranch.jpg	image of a bird	44d0a2dc29c52a8656bd4bdcb12d794c	88
65	BarnOwl.jpg	F:\BarnOwl.jpg	image of a bird	35c82564737216998e3d051f286bb728	89
66	BaldEagle7oClock.jpg	F:\BaldEagle7oClock.jpg	image of a bird	7c3be8176820e88dcb1f89f	90

				6d2ddbab5	
67	AmericanWhite PelicansCirclin g.jpg	F:\AmericanWhitePelicansCircling.jp g	image of birds	9e637c4b39b 94f2eb72a8eb c81684652	91
68	AmericanAvoce tWinterPlumag e.jpg	F:\AmericanAvocetWinterPlumage.j pg	image of a bird	7addf538b278 1a0d44d2ef0d 4649e680	92
69	AlmondMarshG reatBlueHeron Stalling.jpg	F:\AlmondMarshGreatBlueHeronSta lling.jpg	image of a bird	ed2b7f661974 455399f9d083 f01c19fe	93

### Images Discovered via File carving/orphan Files (Deleted files)

INDEX	FILE NAME	ORIGIN	COMMENT	MD5 HASH	INDEX OF DUPLICATES
71	F00111 92.JPG	CARVED FROM VOL3	IMAGE OF A BIRD	CC51364CD95F021F 7422AB2A219966EF	50,
72	F00105 68.JPG	CARVED FROM VOL3	IMAGE OF A BIRD	3DB5FB16B446EA0E 92447CF6399709E9	51
73	F00099 76.JPG	CARVED FROM VOL3	IMAGE OF A BIRD	6070CDC8E0C059AD 72FD782AC8B7F161	52
74	F00095 52.JPG	CARVED FROM VOL3	IMAGE OF A BIRD	A46CEF1FD7B97353 72E7FA07D5F05457	53
75	F00091 68.JPG	CARVED FROM VOL3	IMAGE OF A BIRD WITH "SURFBIRD.COM" CONNECTION	B86DDB90A6902C83 C0E516D0AAA32F31	46
76	F00090 48.JPG	CARVED FROM VOL3	IMAGE OF A BIRD WITH "SURFBIRD.COM" CONNECTION	26EA3ED3B63821DD 6ED5D0828696D741	47
77	F00084 24.JPG	CARVED FROM VOL3	IMAGE OF A BIRD	EB09AEA7A30842DB 52A3BB6ACF23442B	54
78	F00078 96.JPG	CARVED FROM VOL3	IMAGE OF A BIRD	F393EBD21E9F30D4 A75E4DB4BF10DC5B	55

	F00074	CARVED FROM VOL3	IMAGE OF A BIRD	ACBCEFD7EFB3A148 E050D6FE3340B4BD	56
79	F00067 32.JPG	CARVED FROM VOL3	IMAGE OF BIRDS	CA239DE832CF2A1F 6084A6939EE3D405	57
80	F00062 64.JPG	CARVED FROM VOL3	IMAGE OF A BIRD	798A2DB6F5695328 BF8D116F2A76F99F	58
81	F00056 40.JPG	CARVED FROM VOL3	IMAGE OF A BIRD	5DB35478FD169CF7 487B1A62EC872AC4	59
82	F00054 24.JPG	CARVED FROM VOL3	IMAGE OF A PERSON HOLDING A BIRD	BEAAF73518D8E49E 58F116FBD834F537	48
83	F00052 96.JPG	CARVED FROM VOL3	IMAGE OF A BIRD	91E2843F48162AC7 A12A777D5E4226F5	49,60
84	F00048 56.JPG	CARVED FROM VOL3	IMAGE OF A BIRD	6257F2B469C8820C 6A8CF7703B9DD7C8	61
85	F00042 48.JPG	CARVED FROM VOL3	IMAGE OF A BIRD	64302E831DC5DDB8 C9A0E75781D5C76F	62
86	F00037 52.JPG	CARVED FROM VOL3	IMAGE OF BIRDS	E08381661FDB2F06 E0C15B599DCAD571	63
87	F00023 68.JPG	CARVED FROM VOL3	IMAGE OF A BIRD	44D0A2DC29C52A86 56BD4BDCB12D794C	64
88	F00020 88.JPG	CARVED FROM VOL3	IMAGE OF A BIRD	35C8256473721699 8E3D051F286BB728	65
89	F00016 24.JPG	CARVED FROM VOL3	IMAGE OF A BIRD	7C3BE8176820E88D CB1F89F6D2DDBAB5	66
90	F00012 24.JPG	CARVED FROM VOL3	IMAGE OF BIRDS	9E637C4B39B94F2E B72A8EBC81684652	67
91	F00008 88.JPG	CARVED FROM VOL3	IMAGE OF A BIRD	7ADD538B2781A0D 44D2EF0D4649E680	68
92	F00005 36.JPG	CARVED FROM VOL3	IMAGE OF A BIRD	ED2B7F6619744553 99F9D083F01C19FE	69
93	IMAGE6. JPG	CARVED FROM VOL2	IMAGE OF A BIRD	48650701309FDF4D 709D5AC7E7E5D710	-
94	IMAGE5. JPG	CARVED FROM VOL2	IMAGE OF A BIRD	69BEE32511EBC96B C4BD36723FDC315E	-

97	IMAGE4. JPG	CARVED FROM VOL2	IMAGE OF A BIRD	F07B9DDACD667584 8058AF7732FF8596	-
98	IMAGE4. JPG	CARVED FROM VOL2	COVER OF "GUIDE TO BIRDS", CONTAINS A BIRD	122255B261E779A3 659D84A5569AFCE4	-
99	IMAGE3. 3.JPG	CARVED FROM VOL2	COVER OF "BIRDING GUIDE" CONTAINS BIRDS	D01C67D39F700E4D 264ABB770CFAA9DE	-
100	IMAGE3. JPG	CARVED FROM VOL2	IMAGE OF BIRDS	FB5D2ADC39B4E01F 638EDA55200CE380	-
101	IMAGE2. 6.JPG	CARVED FROM VOL2	DRAWING OF A PERSON WITH A BIRD	17A9C739E3734D10 E7F43B138F9C5AA6	-
102	IMAGE2. 5.JPG	CARVED FROM VOL2	DRAWINGS OF PEOPLE POSSIBLY BIRDING	8DEB919E0DFE355F 3DF9F59C56FF53EC	-
103	IMAGE2. 4.JPG	CARVED FROM VOL2	DRAWINGS OF PEOPLE POSSIBLY BIRDING	B58140BF916D076B 07BC33FC567CB25D	-
104	IMAGE2. 3.JPG	CARVED FROM VOL2	DRAWINGS OF PEOPLE POSSIBLY BIRDING	CEDD7AF21B994F82 64033F5B7E840321	-
105	IMAGE2. 2.JPG	CARVED FROM VOL2	DRAWINGS OF PEOPLE POSSIBLY BIRDING	D0CBDDC36244781 329A6FAA5DD53971 8	-
106	IMAGE2. 1.JPG	CARVED FROM VOL2	ADS FROM BIRDING GUIDE	7173084F18C6EDFD D084694A159675DC	-
107	IMAGE2. 0.JPG	CARVED FROM VOL2	ADS FROM BIRDING GUIDE	4F00DA01181CF1CF 3D4CD96888119A14	-
108	IMAGE2. JPG	CARVED FROM VOL2	IMAGE OF A BIRD	4E7A41349CF80F8C E4ABF74AABC5815	-
109	IMAGE2. JPG	CARVED FROM VOL2	IMAGE OF MAN AT BIRDING SIGHT	F6C03D997F4F3FBA ACF5E4A31B1DBA2A	-
110	IMAGE1. 9.JPG	CARVED FROM VOL2	ADS FROM BIRDING GUIDE	BE6B176964A2A825 34E46BDBD69012E6	-
111	IMAGE1. 8.JPG	CARVED FROM VOL2	ADS FROM BIRDING GUIDE	1DC7889514F31B08 07D277B4B40F5564	-
112	IMAGE1. 7.JPG	CARVED FROM VOL2	ADS FROM BIRDING GUIDE	9B8AEFED9184934C 2AFFA180D10CBC19	-

	IMAGE1 113 6.JPG	CARVED FROM VOL2	IMAGE CONTAINING BIRDS	00373AE0E2967C54 58ACC57F3FEDFF20	-
	IMAGE1 114 5.JPG	CARVED FROM VOL2	ADVERT FOR "BIRD WATCHING EXTRAVAGANZA"	675AE2666D572B1A 0E1E5C2E4135E659	-
	IMAGE1 115 4.JPG	CARVED FROM VOL2	ADVERT FOR "WILD BIRDS UNLIMITED"	931AD1EAA65A63BA F83FEACF58BCBD3B	-
	IMAGE1 116 3.JPG	CARVED FROM VOL2	MAP FROM A BIRDING GUIDE	F8DC963283B0C93E 3C15B167EF229349	-
	IMAGE1 117 2.TIF	CARVED FROM VOL2	DRAWING OF A BIRD	FE0A0F3A7CA59220 4D0D7EFB2E89F7B7	-
	IMAGE1 118 2.JPG	CARVED FROM VOL2	IMAGE OF A BIRD	ADAB3EF8244801D7 0550A9B6DD7378B8	-
	IMAGE1 119 1.JPG	CARVED FROM VOL2	IMAGE OF A BIRD	89F7DE33F8D532AD 981B9E76621D4966	-
	IMAGE1. 120 TIF	CARVED FROM VOL2	DRAWING OF A BIRD	8879A739623BCB42 E6834947EDA82723	-
	IMAGE1. 121 JPG	CARVED FROM VOL2	COVER OF "BIRDS AUSTRALIA"	AE0224250379A994 7AB7B0C662403634	-
	IMAGE1. 122 JPG	CARVED FROM VOL2	IMAGE OF A BIRD	DF289B9B97460DC4 841EF8CDFF99F6E6	-
	IMAGE0. 123 JPG	CARVED FROM VOL2	COVER OF "BIRDING SITES"	D83BFED1CB6DDAE3 894B8E2A31421B56	-
	IMAGE0. 124 JPG	CARVED FROM VOL2	IMAGE CONTAINING BIRDS	CA0EE720504806E4 FB8D27A8B4EF4C87	-
	F05975 125 84.JPG	CARVED FROM VOL2	IMAGE OF BIRDS	2EBF36F3124138F5 84112DDC07E5118B	146
	F05921 126 36.JPG	CARVED FROM VOL2	IMAGE OF BIRDS	65CD3C59F03AB229 BD34C3A20D8BF43A	168
	F05526 127 88.JPG	CARVED FROM VOL2	POSSIBILITY FOR BIRD SIGHTING	9C9C97B5E918EE1E 7C18C1751D2C998 C	-
	F05451 128 84.JPG	CARVED FROM VOL2	POSSIBILITY FOR BIRD SIGHTING	C2C38F0C310F9C3C FD7DC6DDE3F874F9	-

129	F05441 52.JPG	CARVED FROM VOL2	POSSIBILITY FOR BIRD SIGHTING	675E4673799248AD 92D0DED690A0A5D4	-
130	F05269 60.JPG	CARVED FROM VOL2	IMAGE OF A BIRD	B887686B7BFA6E4D A155EF302A3E04B7	172
131	F04931 76.JPG	CARVED FROM VOL2	POSSIBLE BIRD HOUSE	66B5167365DB72E8 5039C52B85FF90C7	-
132	F04435 20.JPG	CARVED FROM VOL2	IMAGE OF A BIRD	6EC584061DC3FC52 7B2D5D419A696C94	165
133	F04415 36.JPG	CARVED FROM VOL2	IMAGE OF A BIRD	5AD002EDDC616855 099B47323C463A98	159
134	F04409 44.JPG	CARVED FROM VOL2	IMAGE OF A BIRD	25F12C1DBB64575B 56A92BDCADC88ADE	18,173
135	F04394 00.JPG	CARVED FROM VOL2	IMAGE OF A BIRD	056347A7D67D714F B535C01B9667C4CF	176
136	F04386 40.JPG	CARVED FROM VOL2	IMAGE OF A BIRD	84AB7A6F4F27A1E8 B93433E5B279E68C	177
137	F04160 72.JPG	CARVED FROM VOL2	IMAGE OF A BIRD	884104DB790C7151 74C2CEFFFFF97546	164
138	F04150 08.JPG	CARVED FROM VOL2	IMAGE OF A BIRD	CFFB687537182987 50D0B5B130E9C372	174
139	F03876 24.JPG	CARVED FROM VOL2	IMAGE OF A BIRD	7BC7BEE527E4BED1 AF3F00D328824D27	169
140	F03824 64.JPG	CARVED FROM VOL2	IMAGE OF A BIRD	041A23C317560764 D11F1003DCB82E2F	175
141	F03603 92.JPG	CARVED FROM VOL2	IMAGE OF A PERSON HOLDING A BIRD	37D60053D5E93365 16887A24BC735EDC	171
142	F03458 32.JPG	CARVED FROM VOL2	IMAGE OF BIRDS	5B3FA4E2E40A5B50 E7563612725E19EA	16,167
143	F03456 56.JPG	CARVED FROM VOL2	IMAGE OF A BIRD	A47D625CBA689545 5D099442BAD55A3C	166
144	F03455 84.JPG	CARVED FROM VOL2	IMAGE OF BIRDS	C14916D4A3C790E8 0E65232DC8E9A707	20,178
145	F03453 44.JPG	CARVED FROM VOL2	IMAGE OF A BIRD	E3273C1494F601E2 E4378580CA76A1EC	19,160

146	F03104 80.JPG	CARVED FROM VOL2	IMAGE OF BIRDS	2EBF36F3124138F5 84112DDC07E5118B	125
147	F01891 36.GIF	CARVED FROM VOL2	IMAGE CONTAINING A BIRD	118DF893643B4B6E 577CF9A5C987AE27	-
148	F00569 76.JPG	CARVED FROM VOL2	IMAGE OF A BIRD	65F9489E302828BB F65639075646A1EC	157
149	F00569 52.JPG	CARVED FROM VOL2	IMAGE OF A BIRD	DCF99EFEC7A00D28 ED11C8923EB96E95	-
150	F00569 44.JPG	CARVED FROM VOL2	IMAGE OF A BIRD	AEA86094A7A46FA0 B8FF889E9DA32EF9	-
151	F00569 36.JPG	CARVED FROM VOL2	IMAGE OF A BIRD	B12A067C033A94B2 90F89A733F6CA72A	-
152	F00569 28.JPG	CARVED FROM VOL2	IMAGE OF PEOPLE HOLDING A BIRD	6C814307C6739EA5 6A85CCF663E3AF3B	-
153	F00569 20.JPG	CARVED FROM VOL2	IMAGE OF PEOPLE INTERACTING WITH A BIRD	9E43274BD8374867 674F15FFA67BE052	-
154	F00458 80.JPG	CARVED FROM VOL2	IMAGE OF BIRDS	502BD8D15DA30916 18AC3CF483BD1654	-
155	F00339 28.JPG	CARVED FROM VOL2	IMAGE OF A BIRD	C8556706FC11C2A7 17F49EE20C1E3292	-
156	F00339 12.JPG	CARVED FROM VOL2	IMAGE OF BIRDS	880B9BAFBDF139AA FB30FB2ECDF373D7	-
157	F00339 04.JPG	CARVED FROM VOL2	IMAGE OF A BIRD	65F9489E302828BB F65639075646A1EC	148
158	FB4ED A00D0 1	FOUND AS ORPHAN FILE ON VOL2	POSSIBLE BIRD HOUSE	5FF1ADA80635EBC0 4F5722A88E4F4D9D	-
159	EF29A EAED0 1	FOUND AS ORPHAN FILE ON VOL2	IMAGE OF A BIRD	5AD002EDDC616855 099B47323C463A98	133
160	E1663 DDEd0 1	FOUND AS ORPHAN FILE ON VOL2	IMAGE OF A BIRD	E3273C1494F601E2 E4378580CA76A1EC	19,145

161	D19FC BF6D0 1	FOUND AS ORPHAN FILE ON VOL2	POSSIBLE LEVEL 10 ON COPINE SCALE	3E1ECD0A7FD6D70B 904C7E2D290E03BD	-
162	BF5BE 9D9D0 1	FOUND AS ORPHAN FILE ON VOL2	IMAGE OF A PERSON RELEASING A BIRD	FF0ACE5E6F7F467F 9C0BF9F840F5D561	-
163	B76BD 0AE0D 1	FOUND AS ORPHAN FILE ON VOL2	CONSTRUCTION OF A BIRD HOUSE	C8BDE2F6FCF8D842 D503968504872DB3	-
164	A3D4D DDDD0 1	FOUND AS ORPHAN FILE ON VOL2	IMAGE OF A BIRD	884104DB790C7151 74C2CEFFFFF97546	137
165	A2E5F 216D01	FOUND AS ORPHAN FILE ON VOL2	IMAGE OF A PERSON HOLDING A BIRD	6EC584061DC3FC52 7B2D5D419A696C94	132
166	A0016 363D01	FOUND AS ORPHAN FILE ON VOL2	IMAGE OF A BIRD	A47D625CBA689545 5D099442BAD55A3C	143
167	93C4F 412D01	FOUND AS ORPHAN FILE ON VOL2	IMAGE OF BIRDS	5B3FA4E2E40A5B50 E7563612725E19EA	16,142
168	6A161 D2FD0 1	FOUND AS ORPHAN FILE ON VOL2	IMAGE OF BIRDS	65CD3C59F03AB229 BD34C3A20D8BF43A	126
169	67BAE B46D0 1	FOUND AS ORPHAN FILE ON VOL2	IMAGE OF A BIRD	7BC7BEE527E4BED1 AF3F00D328824D27	139
170	5E557 0B4D0 1	FOUND AS ORPHAN FILE ON VOL2	IMAGE OF A ROOM WITH AN IMAGE CONTAINING BIRDS HANGING ON THE WALL	FE1F3A53E513DA31 2F6E03768CD7DB4A	-
171	4C3E8 9C6D0 1	FOUND AS ORPHAN FILE ON VOL2	IMAGE OF A PERSON HOLDING A BIRD	37D60053D5E93365 16887A24BC735EDC	141
172	3E8C6 2AFD0 1	FOUND AS ORPHAN FILE ON VOL2	IMAGE OF A BIRD	B887686B7BFA6E4D A155EF302A3E04B7	130
173	3E876 2AFD0 1	FOUND AS ORPHAN FILE ON VOL2	IMAGE OF A BIRD	25F12C1DBB64575B 56A92BDCADC88ADE	18,134

174	1	3E866 2AFD0	FOUND AS ORPHAN FILE ON VOL2	IMAGE OF A BIRD	CFFB687537182987 50D0B5B130E9C372	138
175	1	3E846 2AFD0	FOUND AS ORPHAN FILE ON VOL2	IMAGE OF A BIRD	041A23C317560764 D11F1003DCB82E2F	140
176	1	3E826 2AFD0	FOUND AS ORPHAN FILE ON VOL2	IMAGE OF A BIRD	056347A7D67D714F B535C01B9667C4CF	135
177	1	3E816 2AFD0	FOUND AS ORPHAN FILE ON VOL2	IMAGE OF A BIRD	84AB7A6F4F27A1E8 B93433E5B279E68C	136
178	212D01	1238C	FOUND AS ORPHAN FILE ON VOL2	IMAGE OF BIRDS	C14916D4A3C790E8 0E65232DC8E9A707	20, 144
179	1	978D1 4DDd0	FOUND AS ORPHAN FILE ON VOL2	IMAGE OF A BIRD	23F96443A3014DAD 5DAA64248F99BBBD	-

## **APPENDIX B – ILLICIT IMAGES TAKEN WITH CANON POWERSHOT SD100**

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Index / (-es)	Filename	Image
5	ready2fledge.jpg	 A photograph showing several dark-colored, downy bird chicks nestled together in a nest. One chick in the foreground has its beak slightly open, possibly chirping or being fed.
18,134,173	birdtrans2.jpg	 A photograph of a person's hands holding a small bird, likely a seabird, by its wings. A small, rectangular transponder or tracking device is attached to one of the bird's wing feathers.

16,142,167	chicks2.jpg	
4	newbies2.jpg	
166,143	f0345656.jpg	

175,140	f0382464.jpg	
174,138	f0415008.jpg	
177,136	f0438640.jpg	

176,135	f0439400.jpg	
172,130	f0526960.jpg	

159,133	f0441536.jpg	
168,126	f0592136.jpg	
171,141	f0360392.jpg	

165,132	f0443520.jpg	
179	978D14DDd01	
164,137	f0416072.jpg	

162	BF5BE9D9d01	
170	5E5570B4d01	

## **APPENDIX C - NON-ILLICIT IMAGES TAKEN WITH CANON POWERSHOT SD100**

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Filename	Image
f0432032.jpg	
f0520464.jpg	

f0348056.jpg



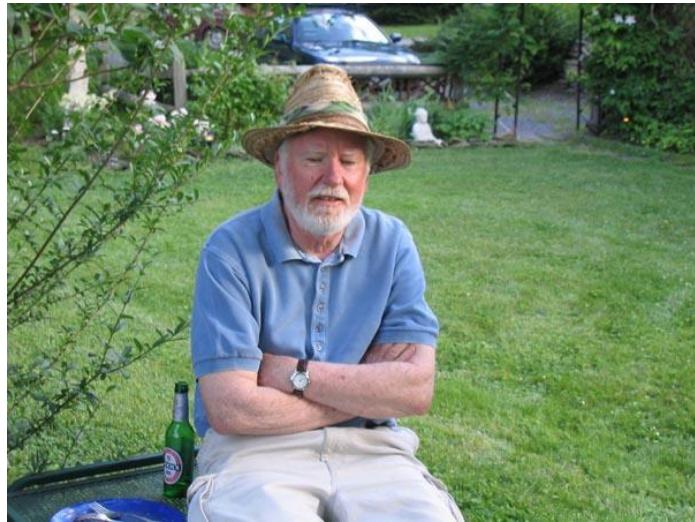
f0415616.jpg



f0417336.jpg



f0508024.jpg



f0527448.jpg



f0457096.jpg



f0522304.jpg



f0561264.jpg



f0501184.jpg



f0544152.jpg



f0545184.jpg



f0378088.jpg



f0413632.jpg



FB4EDA00d01



FB4DEA89d01



f0493176.jpg



f0525016.jpg



f0552688.jpg



f0391728.jpg



f0395576.jpg



f0395928.jpg



f0464568.jpg



f0529544.jpg



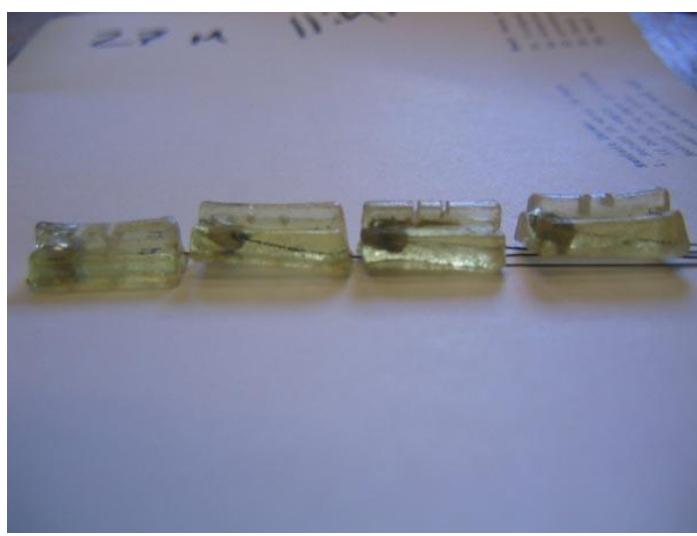
f0533600.jpg



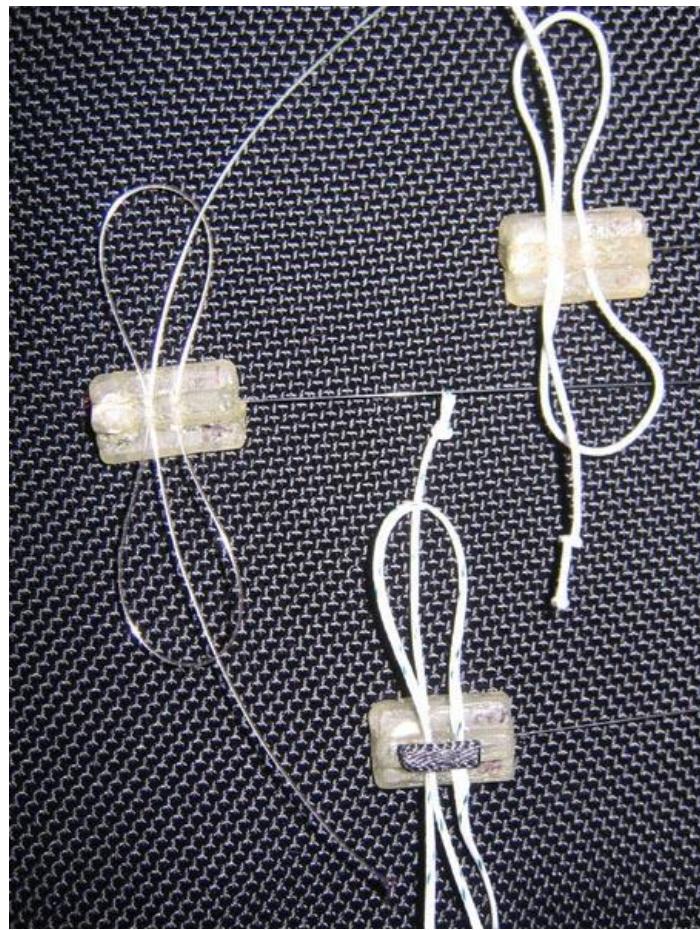
f0526232.jpg



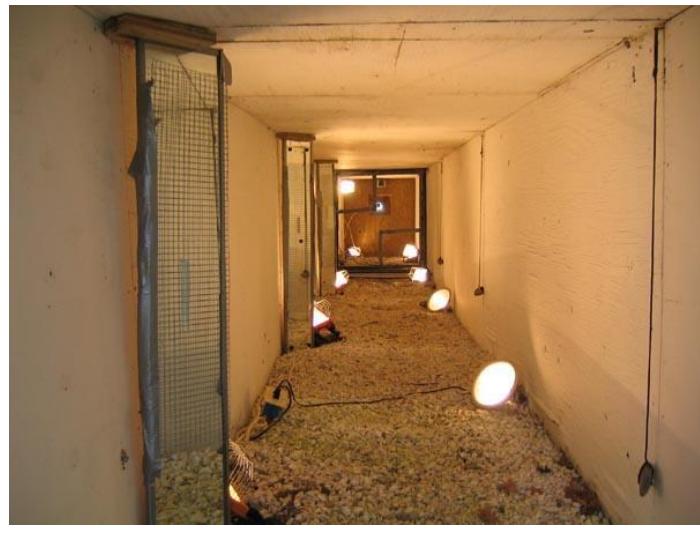
b0269960.jpg



848752E7d01



502FE69Dd01



19E9BA69d01



f0525496.jpg



f0438992.jpg



f0494144.jpg



f0399464.jpg



## **APPENDIX D – ILLICIT IMAGE TAKEN WITH CANON EOS-1DS**

---

Index / (-es)	Filename	Image
64,88	BellbirdJumpin gOffBranch.jpg	 A photograph of a Bellbird (Kōkako) perched on a thin, light-colored branch. The bird is shown from a side profile, facing towards the right. It has a bright green body with black wings and a dark cap. Its legs are blue-grey and its beak is dark.

## **APPENDIX E – ILLICIT IMAGE TAKEN WITH SONY CYBERSHOT**

---

Index / (-es)	Filename	Image
31	feeding the birds.jpg	

## **APPENDIX F – OTHER FOUND IMAGES OF INTEREST**

---

Index / (-es)	Filename	Image
1	wbpremium_s.jpg	
2	tn_duck_3.jpg	
3	snow_geese.jpg	

7,24	image_0.jpg	
8	glfs-storm-birds.jpg	 <p> <i>Nesting red-winged blackbird/      Carouge à épaulettes en cours de nidification      Mike Hopiak / Cornell Lab of Ornithology</i> </p>

9	gawall8.jpg	
10	frankbeecostume_1 827_96360352	

11

frankbeecostume\_1  
827\_84985892

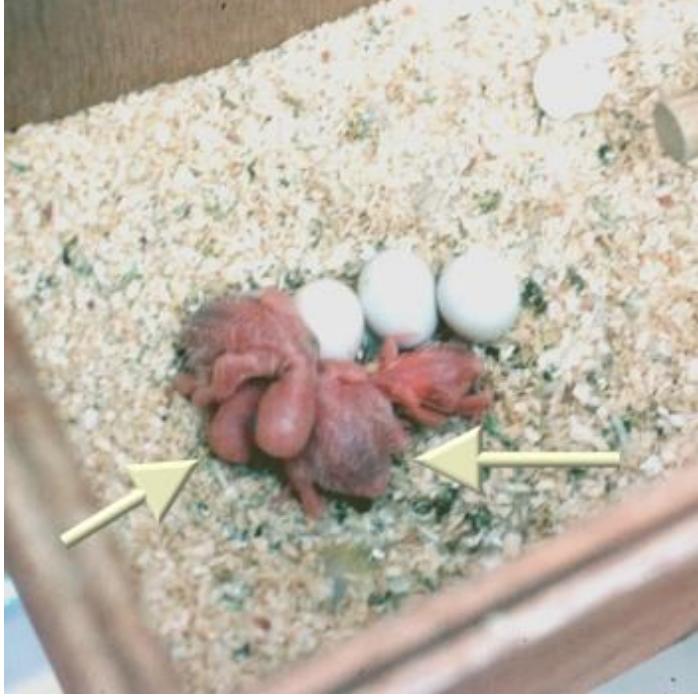


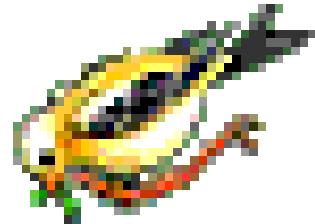
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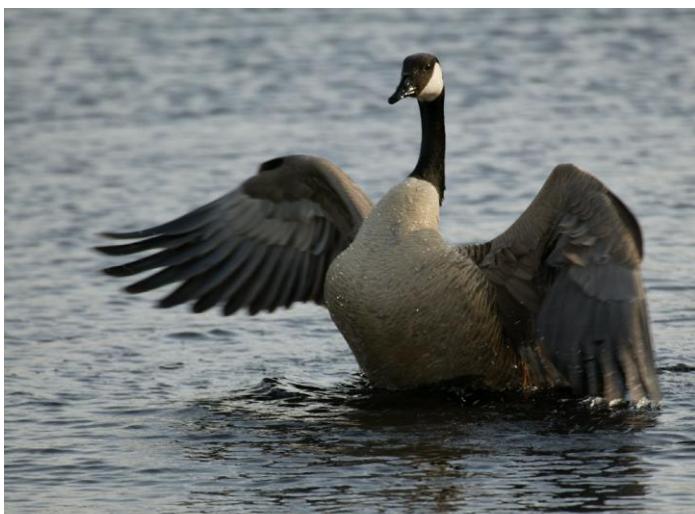
frankbeecostume\_1  
827\_34457581



14	cute_penguin.jpg	
15	colorful-birds.jpg	
17	brd_WoodDuck.jpg	 <small>© Marie Read</small>

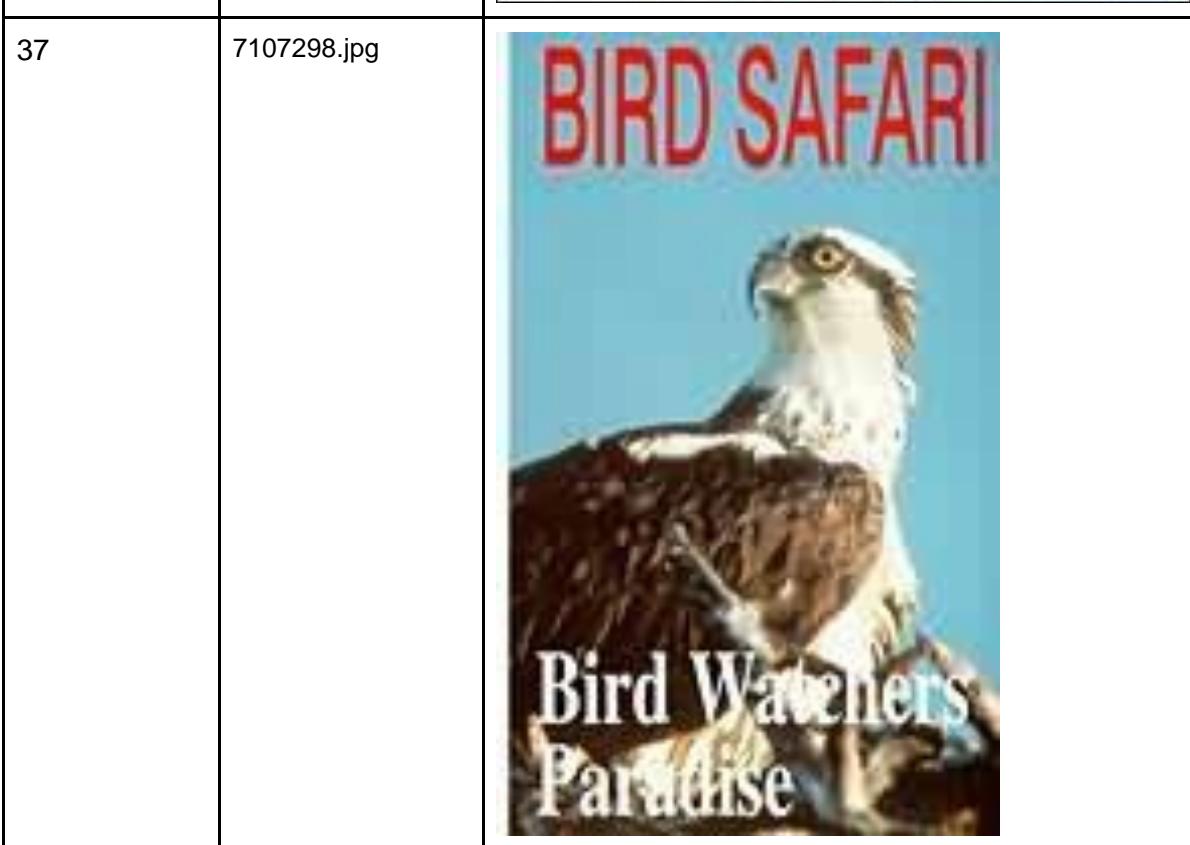
19,145,160	babyscot_vyoung.jpg	
20,144,178	babyscot_2weeks1.jpg	

21	WB01297_.GIF	
22	IMG_3937_filtered.j pg	
23	Firefox Wallpaper.bmp	 <small>www.NatureWallpaper.net</small>

25	CrouchingKokako.jpg	
26	ChestnutMandibledToucan.jpg	
27	CanadaGooseWashing.jpg	

28	CanadaGoose.jpg	 A Canada Goose is shown swimming on a body of water. The bird has a dark brown back, a white patch on its wing, and a distinctive black cap and white patch around its eye. Its reflection is visible in the calm water.
29	BrushTurkeyPerching.jpg	 A Brush Turkey is perched on a horizontal branch. It has a large, dark body with a prominent red wattle and a yellow dewlap. Its head is turned slightly to the left, showing its profile.
30	Brolga.jpg	 A close-up photograph of a Brolga crane's head and neck. The crane has a long, thin beak, a white neck, and a red patch of skin around its eye. It is set against a background of green foliage.

31	BC7 feeding the birds.jpg	
32	B6E0589Dd01	
33	B2906B79d01	
34	8FF8EA93d01	
35	83E8FA9Dd01	



38	40m.jpg	A movie poster for Alfred Hitchcock's 'The Birds'. It features a woman in a blue raincoat looking back over her shoulder while a large bird soars behind her. A young girl is visible in the foreground, looking up at the bird. The title 'THE BIRDS' is prominently displayed in the center.
39	3328DD4Ed01	A photograph of a person standing on a rocky cliff edge. The person is wearing a white shirt and dark pants. In the background, there is a vast, rugged landscape under a clear sky. The word 'Tous' is visible in the bottom right corner of the photo.
40	177.jpg	A close-up photograph of a fluffy yellow chick resting on straw bedding. Next to it is a large, smooth white egg. The chick is looking towards the camera. At the bottom of the image, there is a white text box containing the quote: "Everyone says you're too young for me."

41	WhiteThroatedSparrowInTree.jpg	
42	yellow-wag-cover-nb.jpg	 <p>Yellow Wagtail, copyright Nigel Blake <span style="float: right;">surfbirds.com</span></p>
43	WhoopingCranes.jpg	

44	WhiteFrontedParrot.jpg	
45	WhiteFacedHeronFlying.jpg	
46,75	junescreen01.jpg	 <p>© Christopher Wood</p> <p>Surfbirds.com</p>

47,76	june03screen.jpg	 Cuban Tody © PeteMorris/Birdquest Surfbirds.com
48,83	brd_Ornithologist_TWG.jpg	 © Tim Gallagher
49,60,84	blue_bird2.jpg	 www.NatureWallpaper.net

50,71	KeaRetrievingBake dBeanCanFromTar n.jpg	
51,72	KeaEatingRentalCa r.jpg	
52,73	KeaAtTopOfMacKin nonPass0930.jpg	

53,74	KeaAndMountain.jpg	
54,77	ImmatureSnowyEgretTakingOff.jpg	
55,78	GreenHeronOnChic agoLakeshore.jpg	

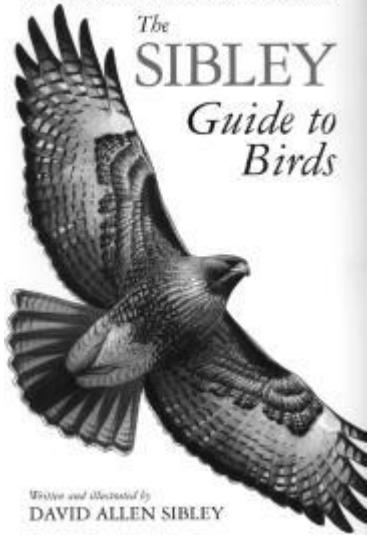
56,79	GreenHeronCloseup.jpg	
57,80	GreatEgretOverflyingRoseateSpoonbills.jpg	
58,81	GreatEgretInVoloBoog.jpg	

59,82	GreatBlueHeronWithFish.jpg	
61	BlackVultureSunningOnPost.jpg	
62	BlackSwan.jpg	

63	BlackNeckedStiltsFromBehind.jpg	
64	BellbirdJumpingOffBranch.jpg	
65	BarnOwl.jpg	

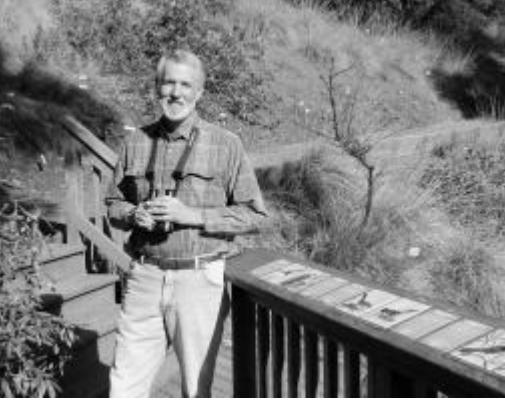
66	BaldEagle7oClock.jpg	 A bald eagle is captured in mid-flight, its wings spread wide. It has a white head and tail, and dark brown feathers on its wings and body. The background is a blurred blue-green body of water.
67	AmericanWhitePelicansCircling.jpg	 A large flock of white pelicans is shown in flight against a clear blue sky. The birds are scattered across the frame, some in sharp focus and others as small white shapes in the distance. They have long necks and dark wingtips.
68	AmericanAvocetWinterPlumage.jpg	 An American avocet is shown in flight, angled downwards towards a body of water. The bird has a long, thin beak and long legs. Its plumage is primarily white with distinct black wing patches and a black stripe through its eye. The background is a dark, rippling body of water.

69	AlmondMarshGreatBlueHeronStalling.jpg	
94	image6.jpg	
96	image5.jpg	

97	image4.jpg	
98	image4.jpg	<p>NATIONAL AUDUBON SOCIETY</p> <p><i>The</i>  <b>SIBLEY</b>  <i>Guide to  Birds</i></p>  <p><i>Written and Illustrated by</i>  DAVID ALLEN SIBLEY</p>
99	image33.jpg	<p>The Forest Family  BIRDING GUIDE</p> 

100	image3.jpg	
101	image26.jpg	
102	image25.jpg	
103	image24.jpg	

104	image23.jpg	
105	image22.jpg	
106	image21.jpg	<p style="text-align: center;"><b>Country Charm in the Heart of the Dunes</b></p> <p>Nestled amid the woodlands and wildflowers of the Indiana Dunes, <b>Springhouse Inn</b> offers warm, comfortable surroundings complimented by thoughtful amenities and attentive service. You can enjoy the cozy warmth of a bed &amp; breakfast inn, with the clean, friendly service of a hotel, featuring...</p> <div style="display: flex; align-items: center;">  <div style="margin-left: 10px;"> <b>SPRING HOUSE INN</b>            the perfect getaway.  <small>ASK ABOUT OUR WHIRLPOOL ROOMS!</small> </div> </div> <p>Call 219.929.4600 or 866-DUNES-00 or visit <a href="http://www.springhouseinn.com">www.springhouseinn.com</a>            303 Mineral Springs Road Porter, IN 46304</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p><b>Accommodations &amp; Services</b></p> <ul style="list-style-type: none"> <li>• 50 beautifully-appointed, oversized country rooms, each with private bath, and balcony or porch</li> <li>• Many rooms offer woodland view</li> <li>• Indoor pool with fireplace</li> <li>• Dry sauna &amp; oversized whirlpool, exercise room</li> <li>• Complimentary deluxe continental breakfast served daily in our Main House library</li> <li>• Picturesque sitting rooms</li> <li>• In-room coffee makers, iron/ironing boards</li> <li>• Four meeting rooms for up to 16 people</li> </ul> </div> <div style="width: 45%;"> <p>Located just 40 minutes from Chicago, Springhouse Inn, one of Chesterton's finest hotels, provides a lodging and meeting retreat option only 2 miles from the Indiana Dunes.</p> </div> </div>

107	image20.jpg	<p style="text-align: center;"><b>We're Ready to Welcome You!</b></p>  <p>Don't sleep just anywhere. There are two great hotels in Valparaiso here for you, the Courtyard and Fairfield Inn by Marriott. Our friendly staff understands your needs, offering all the amenities and services to make your stay enjoyable.</p> <ul style="list-style-type: none"> <li>• Easy access from Route 49 and US 30</li> <li>• Located near great restaurants and shopping</li> <li>• Indoor pool, whirlpool and exercise room</li> </ul> <p style="text-align: center;"><b>VALPARAISO</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 5px;"> <b>Fairfield Inn</b>            U.S. 30 at State Road 49            CALL: 800-228-2800 or            219-465-6225  <a href="http://www.fairfieldinn.com/VRPFI">www.fairfieldinn.com/VRPFI</a> </td><td style="width: 50%; padding: 5px;"> <b>Courtyard</b>            U.S. 30 at State Road 49            CALL: 800-321-2211 or            219-465-1700  <a href="http://www.courtyard.com/VRPCY">www.courtyard.com/VRPCY</a> </td></tr> </table>	<b>Fairfield Inn</b> U.S. 30 at State Road 49 CALL: 800-228-2800 or 219-465-6225 <a href="http://www.fairfieldinn.com/VRPFI">www.fairfieldinn.com/VRPFI</a>	<b>Courtyard</b> U.S. 30 at State Road 49 CALL: 800-321-2211 or 219-465-1700 <a href="http://www.courtyard.com/VRPCY">www.courtyard.com/VRPCY</a>
<b>Fairfield Inn</b> U.S. 30 at State Road 49 CALL: 800-228-2800 or 219-465-6225 <a href="http://www.fairfieldinn.com/VRPFI">www.fairfieldinn.com/VRPFI</a>	<b>Courtyard</b> U.S. 30 at State Road 49 CALL: 800-321-2211 or 219-465-1700 <a href="http://www.courtyard.com/VRPCY">www.courtyard.com/VRPCY</a>			
108	image2.jpg			
109	image2.jpg			

110

image19.jpg



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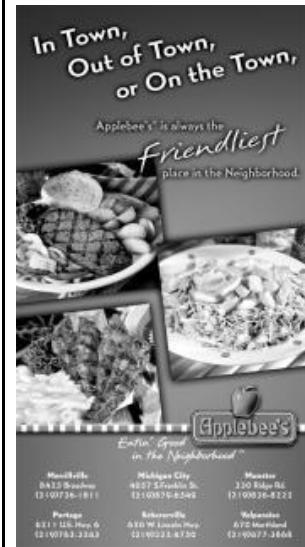
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111

image18.jpg



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112

image17.jpg



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image16.jpg



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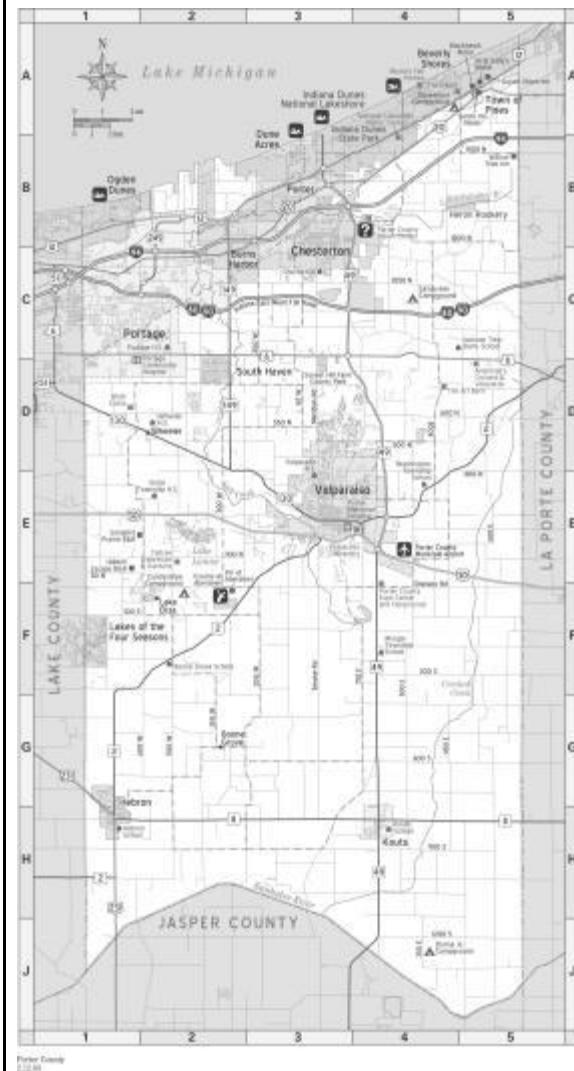
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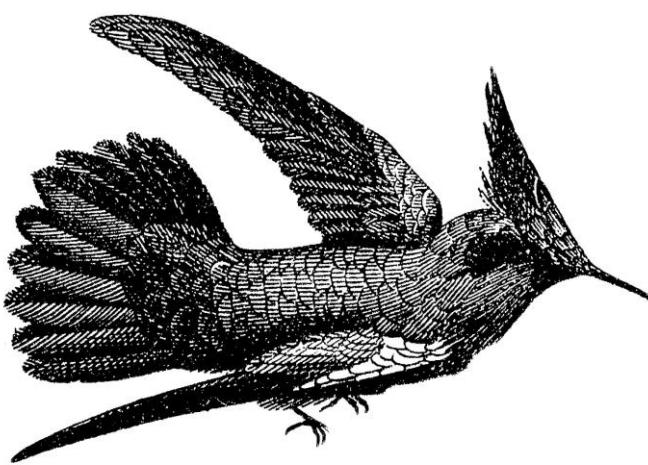
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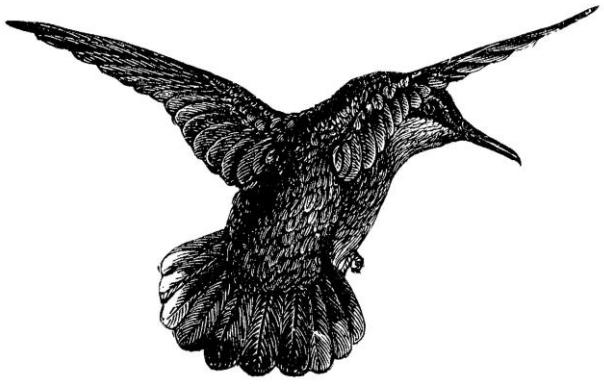
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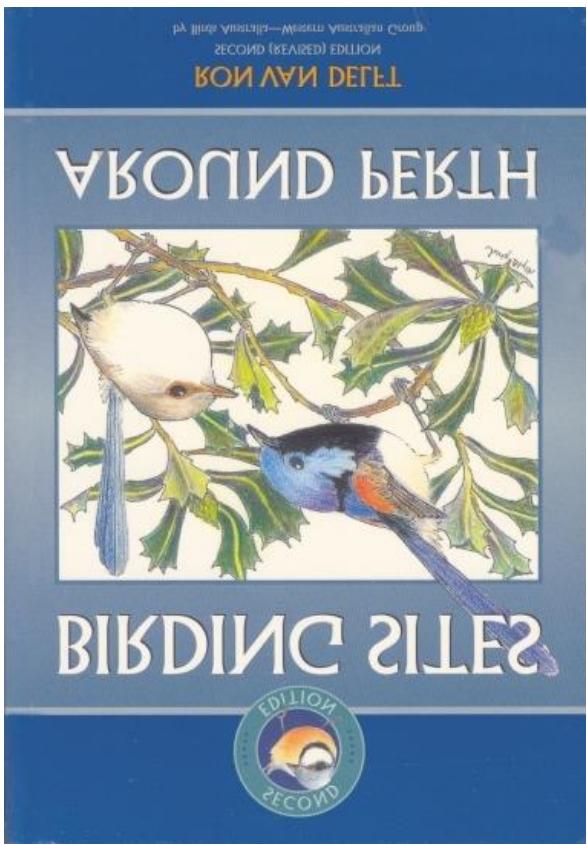


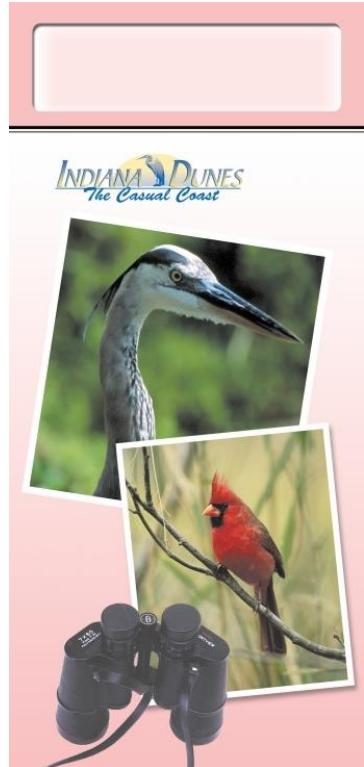
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122	image1.jpg	
123	image0.jpg	

124	image0.jpg	
125,146	f0597584.jpg	
127	f0552688.jpg	

128	f0545184.jpg	A black and white photograph showing four individuals in a wooded area. Three people are in the foreground, all looking towards the right side of the frame. The person second from the left wears a cap and holds binoculars. The person in the center wears a dark polo shirt with a logo on the chest and holds binoculars. The person third from the left wears a dark vest over a light shirt and holds binoculars. A fourth person is partially visible behind them. The background consists of dense evergreen trees.
129	f0544152.jpg	A black and white photograph of five people walking away from the camera on a dirt path through a grassy field. The path leads towards a dense forest. The people are dressed in casual outdoor attire. One man in the foreground on the right wears a hat and a light-colored vest. Another man further back on the left wears a cap and sunglasses hanging from his shirt.
131	f0493176.jpg	A color photograph of three people in a grassy field under a clear blue sky. Two men are standing upright; one is facing away from the camera holding a long pole or antenna, and the other is facing towards the camera. A third person is crouching down to the right. In the background, there are power lines and a distant treeline.

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## APPENDIX G – FIREFOX BROWSER HISTORY

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<Hostname>adobe.com</Hostname>
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```

## Feb 03 2005

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GB%3Aofficial_s&hl=en&q=bird+mating+calls&meta=&btnG=Google+Search</URL>
<LastVisitDate>Thu Feb 03 2005 12:21:40 GMT+0000</LastVisitDate>
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</entry>

<entry>
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<Hostname>whyfiles.org</Hostname>
</entry>

<entry>
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a&rls=org.mozilla:en-GB:official_s&q=</URL>
<LastVisitDate>Thu Feb 03 2005 14:59:29 GMT+0000</LastVisitDate>
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<entry>
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<entry>
<URL>http://images.google.co.uk/imgres?imgurl=http://freespace.virgin.net/cobber.budgies/ima-
ges/babyscot_vyoung.jpg&imgrefurl=http://freespace.virgin.net/cobber.budgies/stories/scot-
tie_a.html&h=353&w=350&sz=38&tbnid=4jg3dcJYAeIJ:&tbmh=116&am-
p;tbnw=115&start=5&prev=/images%3Fq%3Dyoung%2Bchicks%26hl%3Den%26lr-
%3D%26client%3Dfirefox-a%26rls%3Dorg.mozilla:en-GB:official_s%26sa%3DG</URL>
<LastVisitDate>Thu Feb 03 2005 14:59:56 GMT+0000</LastVisitDate>
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```

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</entry>

<entry>
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<entry>
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  <LastVisitDate>Thu Feb 03 2005 15:01:17 GMT+0000</LastVisitDate>
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  <Hostname>media.fastclick.net</Hostname>
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<entry>
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<entry>
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</entry>

<entry>
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```

```

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<entry>
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<Hostname>people.cornell.edu</Hostname>
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</entry>

```

## Feb 09 2005

```

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<LastVisitDate>Wed Feb 09 2005 11:27:00 GMT+0000</LastVisitDate>
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<FirstVisitDate>Wed Feb 09 2005 11:27:12 GMT+0000</FirstVisitDate>
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<VisitCount>2</VisitCount>
</entry>

<entry>
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```

```
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<Hostname>traveltex.com</Hostname>
<Hidden>1</Hidden>
</entry>
```

## APPENDIX H – FIREFOX DOWNLOAD HISTORY

---

```
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    NC:Name="dawn.ram"
    NC:Transferred="1kB of 1kB">
<NC:URL RDF:resource="http://www.pbs.org/lifeofbirds/songs/dawn.ram"/>
<NC:File RDF:resource="C:\DOCUME~1\JOHNDOE\LOCALS~1\TEMP\dawn.ram"/>
<NC:DateStarted NC:parseType="Date">Wed Feb 02 15:12:09 GMT Standard Time 2005
+573635</NC:DateStarted>
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+593664</NC:DateEnded>
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```

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+345172</NC:DateStarted>
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+415273</NC:DateEnded>
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<NC:ProgressPercent NC:parseType="Integer">100</NC:ProgressPercent>
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```

```
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    NC:Transferred="20311kB of 20311kB">
```

```
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RDF:resource="http://ardownload.adobe.com/pub/adobe/reader/win/7x/7.0/enu/AdbeRdr70_enu
_full.exe"/>

<NC:File RDF:resource="C:\Documents and
Settings\johndoe\Desktop\AdbeRdr70_enu_full.exe"/>

<NC:DateStarted NC:parseType="Date">Wed Feb 02 16:53:20 GMT Standard Time 2005
+553275</NC:DateStarted>

<NC:DateEnded NC:parseType="Date">Wed Feb 02 16:54:42 GMT Standard Time 2005
+150606</NC:DateEnded>

<NC:DownloadState NC:parseType="Integer">1</NC:DownloadState>
<NC:ProgressPercent NC:parseType="Integer">100</NC:ProgressPercent>
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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"/>

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+466720</NC:DateEnded>

<NC:DownloadState NC:parseType="Integer">1</NC:DownloadState>
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</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"/>
```

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+779785</NC:DateStarted>  
<NC:DateEnded NC:parseType="Date">Thu Feb 03 15:00:19 GMT Standard Time 2005  
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<NC:ProgressPercent NC:parseType="Integer">100</NC:ProgressPercent>  
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```

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RDF:resource="http://freespace.virgin.net/cobber.budgies/images/babyscot_2weeks1.jpg"/>  
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<NC:ProgressPercent NC:parseType="Integer">100</NC:ProgressPercent>  
</RDF:Description>
```

```
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Pictures\177.jpg"/>
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+033747</NC:DateEnded>

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<NC:ProgressPercent NC:parseType="Integer">100</NC:ProgressPercent>

</RDF:Description>

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    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>

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+579435</NC:DateEnded>

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</RDF:Description>

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    NC:Name="birdtrans2.jpg"

    NC:Transferred="58kB of 58kB">

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<NC:File RDF:resource="C:\Documents and Settings\johndoe\Desktop\birdtrans2.jpg"/>

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+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>

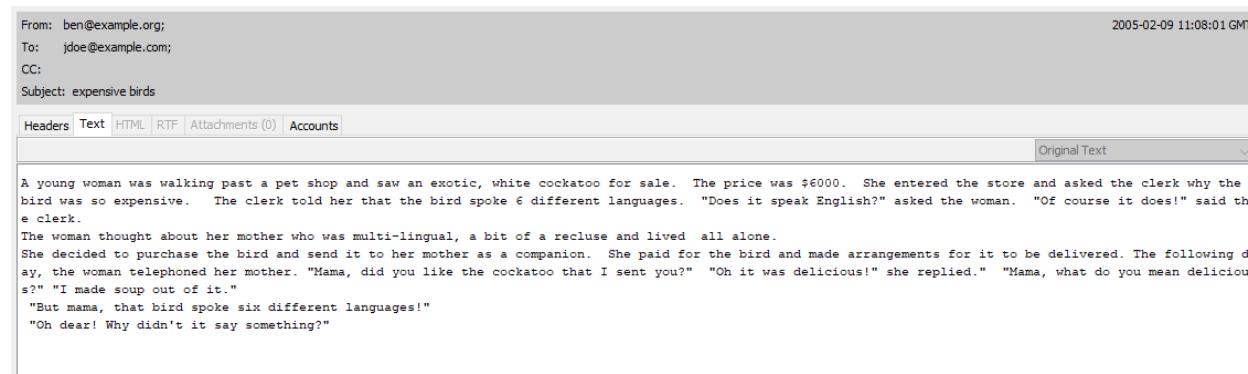
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  NC:Name="chicks2.jpg"
  NC:Transferred="38kB of 38kB">
  <NC:URL RDF:resource="http://people.cornell.edu/pages/sah67/chicks2.jpg"/>
  <NC:File RDF:resource="C:\Documents and Settings\johndoe\My Documents\My Pictures\chicks2.jpg"/>
  <NC:DateStarted NC:parseType="Date">Thu Feb 03 15:05:03 GMT Standard Time 2005
+698040</NC:DateStarted>
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<RDF:Description RDF:about="C:\Documents and Settings\johndoe\My Documents\newbies2.jpg"
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  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"/>
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+376532</NC:DateStarted>
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+456648</NC:DateEnded>
  <NC:DownloadState NC:parseType="Integer">1</NC:DownloadState>
  <NC:ProgressPercent NC:parseType="Integer">100</NC:ProgressPercent>
</RDF:Description>
```

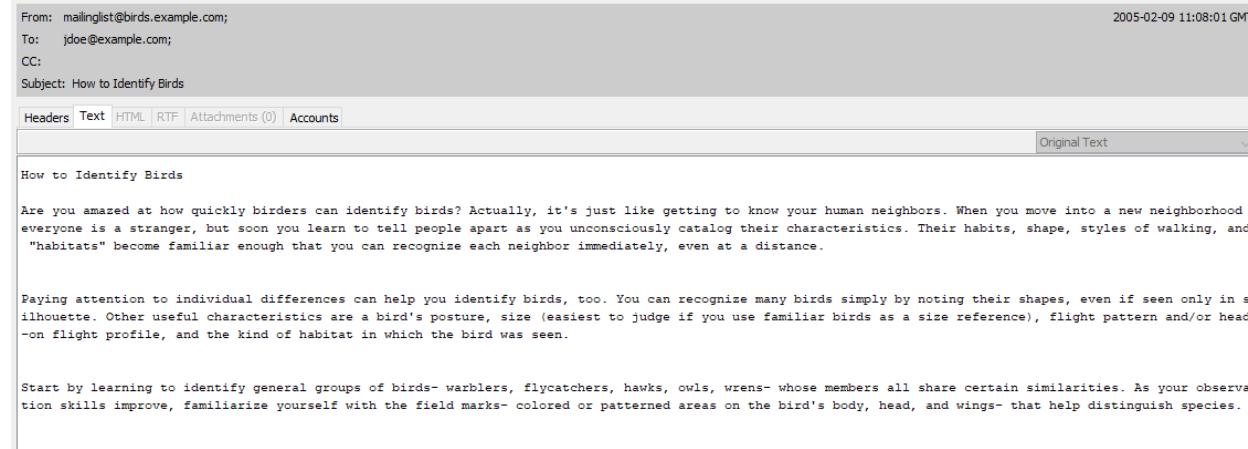
```
<RDF:Description RDF:about="C:\Documents and Settings\bob\My Documents\My  
Music\ready2fledge.jpg"  
    NC:Name="ready2fledge.jpg"  
    NC:Transferred="77kB of 77kB">  
<NC:URL RDF:resource="http://people.cornell.edu/pages/sah67/ready2fledge.jpg"/>  
<NC:File RDF:resource="C:\Documents and Settings\bob\My 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>
```

## APPENDIX I – EMAIL MESSAGES CONTENTS

---



Email Image 1



Email Image 2



Email Image 3

From:	ben@example.org;	2005-02-09 11:08:01 GMT																					
To:	jdoe@example.com;																						
CC:																							
Subject:	good pics																						
<a href="#">Headers</a> <a href="#">Text</a> <a href="#">HTML</a> <a href="#">RTF</a> <a href="#">Attachments (3)</a> <a href="#">Accounts</a>																							
<a href="#">View in New Window</a>																							
<table border="1"> <thead> <tr> <th>Table</th><th>Thumbnail</th><th>Summary</th></tr> </thead> <tbody> <tr> <td align="right" colspan="3">3 Results</td></tr> <tr> <td align="right" colspan="3"><a href="#">Save Table as CSV</a></td></tr> <tr> <th>Location</th><th>Size</th><th>Mime type</th></tr> <tr> <td> /img_johnDoe.dd/vol_vol2/Documents and Settings/johndoe/Application Data/Thunderbird/Profiles/8jqr8v.default/Mail/Local Folders/Inbox/IMG_3937_filtered.jpg</td><td>76919</td><td>image/jpeg unknown</td></tr> <tr> <td> /img_johnDoe.dd/vol_vol2/Documents and Settings/johndoe/Application Data/Thunderbird/Profiles/8jqr8v.default/Mail/Local Folders/Inbox/cute_penguin.jpg</td><td>19263</td><td>image/jpeg unknown</td></tr> <tr> <td> /img_johnDoe.dd/vol_vol2/Documents and Settings/johndoe/Application Data/Thunderbird/Profiles/8jqr8v.default/Mail/Local Folders/Inbox/7EYBTELF1KAN.jpg</td><td>18452</td><td>image/jpeg unknown</td></tr> </tbody> </table>			Table	Thumbnail	Summary	3 Results			<a href="#">Save Table as CSV</a>			Location	Size	Mime type	 /img_johnDoe.dd/vol_vol2/Documents and Settings/johndoe/Application Data/Thunderbird/Profiles/8jqr8v.default/Mail/Local Folders/Inbox/IMG_3937_filtered.jpg	76919	image/jpeg unknown	 /img_johnDoe.dd/vol_vol2/Documents and Settings/johndoe/Application Data/Thunderbird/Profiles/8jqr8v.default/Mail/Local Folders/Inbox/cute_penguin.jpg	19263	image/jpeg unknown	 /img_johnDoe.dd/vol_vol2/Documents and Settings/johndoe/Application Data/Thunderbird/Profiles/8jqr8v.default/Mail/Local Folders/Inbox/7EYBTELF1KAN.jpg	18452	image/jpeg unknown
Table	Thumbnail	Summary																					
3 Results																							
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 /img_johnDoe.dd/vol_vol2/Documents and Settings/johndoe/Application Data/Thunderbird/Profiles/8jqr8v.default/Mail/Local Folders/Inbox/cute_penguin.jpg	19263	image/jpeg unknown																					
 /img_johnDoe.dd/vol_vol2/Documents and Settings/johndoe/Application Data/Thunderbird/Profiles/8jqr8v.default/Mail/Local Folders/Inbox/7EYBTELF1KAN.jpg	18452	image/jpeg unknown																					

### Email Image 4

From:	ben@example.org;	2005-02-09 11:08:01 GMT
To:	jdoe@example.com;	
CC:		
Subject:	some more good ones	
<a href="#">Headers</a> <a href="#">Text</a> <a href="#">HTML</a> <a href="#">RTF</a> <a href="#">Attachments (5)</a> <a href="#">Accounts</a>		
<a href="#">Original Text</a>		
<p>Thanks for the pics you sent me here are some I really like</p>		

### Email Image 5

From:	ben@example.org;	2005-02-09 11:08:01 GMT																											
To:	jdoe@example.com;																												
CC:																													
Subject:	some more good ones																												
<a href="#">Headers</a> <a href="#">Text</a> <a href="#">HTML</a> <a href="#">RTF</a> <a href="#">Attachments (5)</a> <a href="#">Accounts</a>																													
<a href="#">View in New Window</a>																													
<table border="1"> <thead> <tr> <th>Table</th><th>Thumbnail</th><th>Summary</th></tr> </thead> <tbody> <tr> <td align="right" colspan="3">5 Results</td></tr> <tr> <td align="right" colspan="3"><a href="#">Save Table as CSV</a></td></tr> <tr> <th>Location</th><th>Size</th><th>Mime type</th></tr> <tr> <td> /img_johnDoe.dd/vol_vol2/Documents and Settings/johndoe/Application Data/Thunderbird/Profiles/8jqr8v.default/Mail/Local Folders/Inbox/BC7 feeding the birds.jpg</td><td>109751</td><td>image/jpeg unknown</td></tr> <tr> <td> /img_johnDoe.dd/vol_vol2/Documents and Settings/johndoe/Application Data/Thunderbird/Profiles/8jqr8v.default/Mail/Local Folders/Inbox/IMG_3937_filtered.jpg</td><td>76919</td><td>image/jpeg unknown</td></tr> <tr> <td> /img_johnDoe.dd/vol_vol2/Documents and Settings/johndoe/Application Data/Thunderbird/Profiles/8jqr8v.default/Mail/Local Folders/Inbox/gawall8.jpg</td><td>24684</td><td>image/jpeg unknown</td></tr> <tr> <td> /img_johnDoe.dd/vol_vol2/Documents and Settings/johndoe/Application Data/Thunderbird/Profiles/8jqr8v.default/Mail/Local Folders/Inbox/gifs-storm-birds.jpg</td><td>82687</td><td>image/jpeg unknown</td></tr> <tr> <td> /img_johnDoe.dd/vol_vol2/Documents and Settings/johndoe/Application Data/Thunderbird/Profiles/8jqr8v.default/Mail/Local Folders/Inbox/colorful-birds.jpg</td><td>100855</td><td>image/jpeg unknown</td></tr> </tbody> </table>			Table	Thumbnail	Summary	5 Results			<a href="#">Save Table as CSV</a>			Location	Size	Mime type	 /img_johnDoe.dd/vol_vol2/Documents and Settings/johndoe/Application Data/Thunderbird/Profiles/8jqr8v.default/Mail/Local Folders/Inbox/BC7 feeding the birds.jpg	109751	image/jpeg unknown	 /img_johnDoe.dd/vol_vol2/Documents and Settings/johndoe/Application Data/Thunderbird/Profiles/8jqr8v.default/Mail/Local Folders/Inbox/IMG_3937_filtered.jpg	76919	image/jpeg unknown	 /img_johnDoe.dd/vol_vol2/Documents and Settings/johndoe/Application Data/Thunderbird/Profiles/8jqr8v.default/Mail/Local Folders/Inbox/gawall8.jpg	24684	image/jpeg unknown	 /img_johnDoe.dd/vol_vol2/Documents and Settings/johndoe/Application Data/Thunderbird/Profiles/8jqr8v.default/Mail/Local Folders/Inbox/gifs-storm-birds.jpg	82687	image/jpeg unknown	 /img_johnDoe.dd/vol_vol2/Documents and Settings/johndoe/Application Data/Thunderbird/Profiles/8jqr8v.default/Mail/Local Folders/Inbox/colorful-birds.jpg	100855	image/jpeg unknown
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 /img_johnDoe.dd/vol_vol2/Documents and Settings/johndoe/Application Data/Thunderbird/Profiles/8jqr8v.default/Mail/Local Folders/Inbox/gifs-storm-birds.jpg	82687	image/jpeg unknown																											
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### Email Image 6

## APPENDIX J - BOOKMARKS

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### Bookmarks

#### Bookmarks Toolbar Folder

Add bookmarks to this folder to see them displayed on the Bookmarks Toolbar

Getting Started  
Latest Headlines

---

#### Quick Searches

Handy searches that can be performed in the addressbar

Google Quicksearch  
Type "google <search terms>" in the location bar to perform a Google search  
Dictionary.com Quicksearch  
Type "dict <word>" in the location bar to perform a dictionary look-up  
Stock Symbol Quicksearch  
Type "quote <symbol>" in the location bar to perform a stock symbol look-up  
Wikipedia Quicksearch  
Type "wp <something>" in the location bar to look up something in Wikipedia, a free online encyclopedia.  
Urban Dictionary  
Type "slang <word>" in the location bar to look up something in the people's slang dictionary

#### Firefox and Mozilla Links

Firefox Start Page  
Firefox Central  
Themes and Extensions  
Firefox Product Page  
The Mozilla web site  
MozillaZine  
Mozilla Store  
Get Involved - Help spread Firefox!

Free Bird Wallpaper - Bald Eagle Albatross Owl Falcon 1024x768  
Alphabetical Index of Birds  
Chickadee Karaoke

## APPENDIX K – OTHER FILES

---

### HTML Documents

#### ostbk2b2.htm

##### 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 halting, 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

#### aa010703.htm

You are here:

[About](#)>[Hobbies & Games](#)>[Birding / Wild Birds](#)> [Equipment & Supplies](#)> [Birdhouses & Feeders](#)> [Build Birdhouses](#)> Birding and Birdwatching - Build a Bluebird Nest Box for Wild Birds



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[Birding / Wild Birds](#)

### Build a Bluebird Nest Box

#### Easy Box to Make

[About.com](#)

[Home  
Essentials](#)

[Types of Birds](#)  
[Worldwide  
Directory of Where to  
Bird](#)  
[US State and  
Canadian Province](#)  
[Birds](#)  
[Birdhouses &  
Feeders](#)  
[Cooking](#)  
[FOR the  
Birds Recipes](#)

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

**Related Resources**

- [Wood to Make Houses](#)
- [Tools to Make Houses](#)
- [Paint for Houses](#)
- [Bird House Spots](#)
- [Make Birdhouses](#)
- [Make Bird Feeders](#)
- [What to Feed Birds](#)
- [Nesting Materials](#)

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[Wiggly Nest Boxes](#)Nest Boxes for all sorts of birds FSC Timber, Order  
[Onlinewww.wigglywrigglers.co.uk](#)

[Research](#)  
[Bird Related Activities](#)  
[Bird Computer Items](#)  
[Types of Birds](#)  
[Identifying Birds](#)  
[Where to See Birds](#)  
[Bird Books](#)  
[Find Other Birders](#)  
[Equipment & Supplies](#)  
[Extinct Birds](#)  
[Buyer's Guide](#)  
[Before You Buy](#)  
[Top Picks](#)  
[Great Digital Cameras](#)  
[Best Feeders](#)  
[Bird Stories to Read](#)  
[Product Reviews](#)  
[Articles](#)  
[Forums](#)  
[Help](#)



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 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, raccoons, and other creatures from harming the nestlings. See the [Birdhouse Spec page](#) for the correct mounting height.



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[www.hairths.com](#)

[Bluebird Houses](#)  
[Discount new & used items](#)  
[affil Search for bluebird houses now!](#)  
[www.eBay.com](#)

[Your Own Wildlife Channel](#)  
[A Bird Nesting Box with a built in TV Camera](#). Just £59.  
[www.feathervision.co.uk](#)

[Bird & Parrot Breeding](#)  
[Birds, cages, nest boxes, vitamins, incubators, brooders, accessories](#)  
[www.parrotsupplies.co.uk](#)

[Smart bird box cameras](#)  
[Wireless nest box camera colour images to PC or TV](#)  
[www.enjoybirdsmore.co.uk](#)

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[Walking](#)  
[U.S. / Canadian Parks](#)  
[Climbing](#)

## Audio Files

### aggressive\_song.wav

Table: [Thumbnail](#) [Summary](#)

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[parent folder]				2005-02-03 15:42:16 GMT	2005-02-03 15:42:16 GMT	2005-02-09 17:03:54 GMT	2005-01-24 16:12:02 GMT	168	Allocated	Allocated	unknown	/img_johnDoe.dd\vol_0\vol2\Program Files\MSN\	
[current folder]				2005-02-09 17:00:20 GMT	2005-02-09 17:00:50 GMT	2005-02-09 17:00:20 GMT	2005-01-24 15:34:20 GMT	496	Allocated	Allocated	unknown	/img_johnDoe.dd\vol_0\vol2\Program Files\MSN\	
MSNCoreFiles				2005-01-24 15:34:29 GMT	2005-01-24 15:34:29 GMT	2005-02-09 17:00:17 GMT	2005-01-24 15:34:20 GMT	240	Allocated	Allocated	unknown	/img_johnDoe.dd\vol_0\vol2\Program Files\MSN\MSNCoreFiles	

Hex Text Application File Metadata Context Results Annotations Other Occurrences

00:00:00/00:00:08 Speed: 1x

### kakapo.ram

Table: [Thumbnail](#) [Summary](#)

Name	S	C	O	Modified Time	Change Time	Access Time	Created Time	Size	Flags(Dir)	Flags(Meta)	Known	Location	MD5 Hash
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ostbk202.htm	1			2005-02-03 15:02:45 GMT	2005-02-03 15:02:45 GMT	2005-02-09 11:28:21 GMT	2005-02-03 15:02:45 GMT	4490	Allocated	Allocated	unknown	/img_johnDoe.dd\vol_0\vol2\Documents and Settings\johndo... b8d942fe0591e1ee7a799e7b9c	
newbie2.jpg	1			2005-02-03 15:05:44 GMT	2005-02-03 15:05:44 GMT	2005-02-09 16:57:54 GMT	2005-02-03 15:05:44 GMT	55740	Allocated	Allocated	unknown	/img_johnDoe.dd\vol_0\vol2\Documents and Settings\johndo... a2ef175882955a1e11b77e9a693a0	
nestboxtips.txt	1			2005-02-02 14:29:30 GMT	2005-02-02 14:29:30 GMT	2005-02-02 14:29:30 GMT	2005-02-02 14:29:30 GMT	1017	Allocated	Allocated	unknown	/img_johnDoe.dd\vol_0\vol2\Documents and Settings\johndo... 333f50942e10453e122994e4b50c	
kakapo.ram	1			2005-02-02 15:11:41 GMT	2005-02-02 15:11:51 GMT	2005-02-02 16:13:02 GMT	2005-02-02 15:11:51 GMT	37	Allocated	Allocated	unknown	/img_johnDoe.dd\vol_0\vol2\Documents and Settings\johndo... 836112e9df244719236916364ef2	
desktop.ini	1			2005-01-24 15:57:30 GMT	2005-01-24 15:57:30 GMT	2005-02-09 16:56:25 GMT	2005-01-24 15:57:05 GMT	78	Allocated	Allocated	unknown	/img_johnDoe.dd\vol_0\vol2\Documents and Settings\johndo... 7234c3bbdeefec3c9283fd0f05d1	
brdpics.jpg	1			2005-02-02 16:46:32 GMT	2005-02-02 16:46:32 GMT	2005-02-03 11:45:43 GMT	2005-02-02 16:46:31 GMT	98897	Allocated	Allocated	unknown	/img_johnDoe.dd\vol_0\vol2\Documents and Settings\johndo... 11e7a23a94226cc02a9f39c3f388f9	
aa10703a_files				2005-02-02 16:13:18 GMT	2005-02-02 16:13:18 GMT	2005-02-09 16:59:22 GMT	2005-02-02 14:25:59 GMT	176	Allocated	Allocated	unknown	/img_johnDoe.dd\vol_0\vol2\Documents and Settings\johndo...	
aa10703a.htm	1			2005-02-02 14:26:01 GMT	2005-02-02 14:26:01 GMT	2005-02-03 15:02:44 GMT	2005-02-02 14:25:59 GMT	53719	Allocated	Allocated	unknown	/img_johnDoe.dd\vol_0\vol2\Documents and Settings\johndo... 4ab04de423f60bc5e2ff230b5af9ce	
[parent folder]				2005-01-28 16:51:42 GMT	2005-01-28 16:51:42 GMT	2005-02-09 16:51:54 GMT	2005-01-24 15:56:56 GMT	56	Allocated	Allocated	unknown	/img_johnDoe.dd\vol_0\vol2\Documents and Settings\johndo...	
[current folder]				2005-02-09 17:03:59 GMT	2005-02-09 17:03:59 GMT	2005-02-09 17:03:59 GMT	2005-01-24 15:56:56 GMT	56	Allocated	Allocated	unknown	/img_johnDoe.dd\vol_0\vol2\Documents and Settings\johndo...	
My Pictures				2005-02-03 15:05:03 GMT	2005-02-03 15:05:03 GMT	2005-02-09 16:51:54 GMT	2005-01-24 15:57:05 GMT	56	Allocated	Allocated	unknown	/img_johnDoe.dd\vol_0\vol2\Documents and Settings\johndo...	
My Music				2005-02-03 14:18:54 GMT	2005-02-03 14:18:54 GMT	2005-02-09 16:59:22 GMT	2005-01-24 15:57:05 GMT	488	Allocated	Allocated	unknown	/img_johnDoe.dd\vol_0\vol2\Documents and Settings\johndo...	

Hex Text Application File Metadata Context Results Annotations Other Occurrences

String: Indexed Text Translation

Page: 1 of 1 Page Matches on page: - of - Match

Text Source: File Text

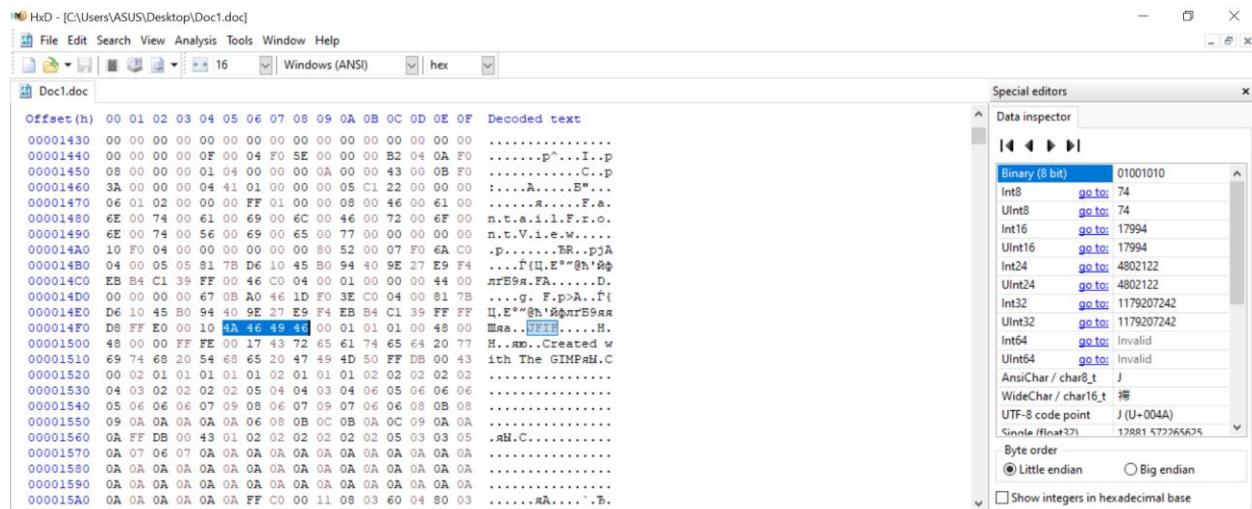
```
psm://audio.pbs.org/songs/kakapo.rmd
-----+METADATA-----
```

dawn.ram

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Name	S	C	O	Modified Time	Change Time	Access Time	Created Time	Size	Flags(Dir)	Flags(Meta)	Known	Location
x~DF794D.tmp		0		2000-00-00 00:00:00	2000-00-00 00:00:00	2000-00-00 00:00:00	2000-00-00 00:00:00	0	Unallocated	unknown	/img_johnDoe.dd\vol_vol2\Documents and Settings\johnDoe\Local Settings\Temp\x~DF794D.tmp	
x~DF4523.tmp		0		2000-00-00 00:00:00	2000-00-00 00:00:00	2000-00-00 00:00:00	2000-00-00 00:00:00	0	Unallocated	unknown	/img_johnDoe.dd\vol_vol2\Documents and Settings\johnDoe\Local Settings\Temp\x~DF4523.tmp	
tmp.xml		1		2005-02-02 14:47:02 GMT	2005-02-02 14:47:02 GMT	2005-02-03 10:12:18 GMT	2005-02-02 14:45:46 GMT	10078343	Allocated	Allocated	unknown	/img_johnDoe.dd\vol_vol2\Documents and Settings\johnDoe\Local Settings\Temp\tmp.xml
fdff111.log		1		2005-01-25 10:42:46 GMT	2005-01-25 10:42:46 GMT	2005-01-25 10:42:46 GMT	2005-01-25 10:35:20 GMT	37252	Allocated	Allocated	unknown	/img_johnDoe.dd\vol_vol2\Documents and Settings\johnDoe\Local Settings\Temp\fdff111.log
ns_temp		2005-01-24 16:42:51 GMT		2005-01-24 16:42:51 GMT	2005-01-24 16:42:51 GMT	2005-02-09 08:00:33 GMT	2005-01-24 16:21:08 GMT	152	Allocated	Allocated	unknown	/img_johnDoe.dd\vol_vol2\Documents and Settings\johnDoe\Local Settings\Temp\ns_temp
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NALlogs				2005-01-24 16:07:27 GMT	2005-01-24 16:07:27 GMT	2005-02-09 08:00:33 GMT	2005-01-24 16:06:10 GMT	608	Allocated	Allocated	unknown	/img_johnDoe.dd\vol_vol2\Documents and Settings\johnDoe\Local Settings\Temp\NALlogs
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Microsoft Office 2003 Setup(0002).txt		1		2005-01-25 11:14:46 GMT	2005-01-25 11:14:46 GMT	2005-01-25 10:39:17 GMT	2005-01-25 10:39:17 GMT	8248	Allocated	Allocated	unknown	/img_johnDoe.dd\vol_vol2\Documents and Settings\johnDoe\Local Settings\Temp\Microsoft Office 2003 Setup(0002).txt
Microsoft Office 2003 Setup(0001).Task(0001).txt		1		2005-01-25 10:37:43 GMT	2005-01-25 10:37:43 GMT	2005-01-25 10:37:43 GMT	2005-01-25 10:35:08 GMT	139428	Allocated	Allocated	unknown	/img_johnDoe.dd\vol_vol2\Documents and Settings\johnDoe\Local Settings\Temp\Microsoft Office 2003 Setup(0001).Task(0001).txt

## **Text files and word documents**

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## birdwatching.doc

**BIRDWATCHING IN THAILAND**  
Feathered Magic from Mangroves to Mountain tops by Antony Lynham  
One of the great attractions for nature tourists visiting Thailand is the diversity of environments extending across mountain peaks, lowland rainforests, mangroves, coral reefs, farmland and urban jungles. Within a day, or even a few hours travel, one can easily make the transition between these places and witness natural marvels large and small.  
For wildlife enthusiasts no group maintains interest and pleasure more than birds. While special efforts are required to see in the wild charismatic species such as elephants and primates, birds are found across the entire spectrum of environments from pristine to severely degraded areas.  
Part of the attraction for birds lies in their diversity. Nine hundred and seventy eight bird species have been recorded in Thailand, approximately 10% of the world's total. At the Isthmus of Kra between latitudes 11°N, a major biogeographic transition between Indochinese and Sundac forests produces a special diversity of birds with a total of 152 species of birds reaching the northern or southern range limits of their geographic ranges.  
Two-thirds of Thai birds are residents, the remainder are seasonal visitors. Locations where migrants congregate, often in large numbers, are highly accessible making Thailand a special destination for birdwatchers.  
Many birds are susceptible to human disturbance because they have small geographic ranges, a result of specific habitat requirements. For example, Dugnain's babbler - a non-descript forest bird is found on Doi Chiang Dao and nowhere else in the world. Gurney's pitta are only found in lowland rainforests. Fewer than 30 birds remain in Thailand's own population at Khao Nor Chuchi, Krabi. Efforts by local and international conservation agencies strive to increase protection efforts and reafforest areas encroached by rubber farmers, though time is running out. With approximately 20% of the birds found in Thailand being globally or regionally endangered species, this makes the country a birdwatching haven for bird enthusiasts.

**IDENTIFYING BIRDS**  
Birds are distinguished mainly by their size and shape. They range from diminutive flowerpeckers, sunbirds and white-eyes, about the size of your index finger, to lanky storks and egrets that stand almost a metre tall, and Green peafowl with its spectacular 2m tail. The form of the beak offers vital clues about the bird's diet. For example a thin red tube for sipping nectar or a sharp hook for tearing flesh. The pattern and colour of plumage can tell apart the sexes as in pheasants where males are bright and striking, and females are drab and dowdy. By far the most useful character for identification is a bird's voice. This is especially true in forests where average 90% of birds are hidden from view. The most experienced birdwatchers in the tropics know their songs and calls.

**BEST TIMES TO SEE BIRDS**  
The nesting season is a good time to be watching birds. During this most active time in a bird's life a variety of vocalizations and behaviours are exhibited. In Thailand, as in other tropical countries, the nesting season coincides with the period when food is in abundant supply. A bird expends much energy in courting, mating, including eggs, defending a nest and feeding offspring. Most birds nest during the transition between dry and wet seasons when new leaves and grass shoots sprout. This occurs from February to June. Certain birds depend on the availability of water and nest throughout the rainy season.

Migratory birds stop during their passage into or out of the country, or as they pass through on their way to other places. Most conspicuously, half a million ducks spend their winter in Thailand, feeding and resting in wetter roosts from Chiang Saen to Thale Noi. Thousands of garganey and Lesser teal flock during January and February.

Shorebirds like sandpipers, stilts and plovers migrate long distances between nesting grounds in Eurasia and tropical Asia and wintering grounds in Australia. They stop to feed in Thailand's mudflats and mangroves during September to May where they stock up on invertebrates and crustaceans. During October, the southward migration of hawks over peninsular Thailand is an avian spectacle. Chinese goshawks, Japanese sparrowhawks, crested honey buzzards, black bazas, and others are seen coasting on thermals in their thousands daily. Less conspicuous is the blue-winged pitta, a ground dwelling bird that arrives with the rains to nest in deciduous and bamboo forests, and escapes the hot season for the wetter forests of Malaya and Sumatra.

**WILDLIFE SANCTUARIES**  
Given that many birds are denizens of certain times, places, habitats or seasons, the amateur naturalist can remember them by association.

**PARKS, TEMPLES AND GARDENS**  
Some species like barn swallows, magpie robins, mynas and starlings can be found around Bangkok and environs. Lumpini Park, a heavily-used green area in the city centre supports a variety of birds with over 90 species having been recorded there. Temples near Bangkok and Ayutthaya preserve pockets of the natural landscape including birds such as black kites, parakeets and woodland birds that are characteristic of the habitats.

**RICE PADDIES, HEDGES AND FORESTS**  
Rice paddies, marshes and ponds away from built-up areas support breeding populations of Asian openbill stork and many other waterbirds.

**Key sites:** Suphan Buri-Ayutthaya and Beung Boraphet.

**PEAT SWAMP FORESTS**  
Among the last vestiges of Thailand's great swamp forest at Phru To Daeng or Chalerm Phrakiat Wildlife Sanctuary in Narathiwat supports Lesser adjutants, a kind of stork, along with several birds characteristic of Sundac forests.

**LAKES, RIVER SANDBANKS AND REEDBEDS**  
Lakes, river sandbanks and reedbeds preserve unique assemblages of wintering waterfowl and perching birds.

**Key sites:** Chiang Saen, Fang Hot Springs, and Thaton.

**AGRICULTURAL LANDSCAPES**  
Agricultural landscapes in the north support species that tolerate human presence and include kites, rollers, bee-eaters, coucals, weavers and bulbuls.

**SANDY BEACHES, MANGROVE AND TIDAL FLATS**  
Sandy beaches are attractive to tourists but are barren habitats for birds, while little-visited mangroves and tidal flats that are rich in nutrients and microorganisms, are favoured feeding haunts for migrant waders. Some birds like the Brown-winged kingfisher and Mangrove pitta, are entirely restricted to mangroves while Mangrove whistlers and flycatchers rarely leave the area.

**FORESTS**  
Mountain forests. Thai birds depend upon forests for their survival. Rainforests in the extreme south support the greatest avian diversity, while seasonally dry dipterocarp, mixed deciduous and evergreen forests in the centre and north.

**Key sites:** Kho Yai National Park, Koeng Krachan National Park, Kho Soi Dao, Nam Nao National Park, Khao Nor Chuchi, Ban Haa Chong, and Hala Bala Wildlife Sanctuary.

**MOUNTAINS**  
Sibias, minla, and laughing thrushes are relatives of species found in the Himalayas and southern China, and can only be found in mountain forests. Following surveys of high mountain peaks in the last decade, at least 20 new species or 2% of the total have been added to the lists for Thailand.

**Key sites:** Phu Hin Rong Kla, Doi Chang Dao, Doi Inthanon, Doi Ang Khang, and Doi Suthep.

By visiting these outstanding destinations, travellers can appreciate the avian wonders that Thailand offers and better understand the importance of the wild and not so wild areas that preserve them.

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Bird Conservation Society of Thailand (BCST)\*  
69/12 Soi Ramrilla 24, Jorakaeau, Ladprao, Bangkok 10230, Thailand  
Email:  
<http://BCST@box1.a-net.net.th> "t" \_blank  
<http://bcst@box1.a-net.net.th>

## stuf.doc

  
Dear Sir  
  
Further to our conversation everything we have discussed has been done  
  
Yours faithfully  
  
John Doe  
  
-----METADATA-----  
  
Application-Name: Microsoft Office Word  
Author: John Doe  
Character Count: 96  
Comments:  
Company:  
Content-Type: application/msword  
Creation-Date: 2005-02-09T16:51:00Z  
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Keywords:  
Last-Author: John Doe  
Last-Modified: 2005-02-09T16:57:00Z  
Last-Save-Date: 2005-02-09T16:57:00Z

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guide.doc 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.
- Shaving 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 to pace? Don't drive. Car-pool 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 givers 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 t

## nestboxtips.txt

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 to 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.

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# UNIVERSITY of CALIFORNIA BOTANICAL GARDEN NEWSLETTER

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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



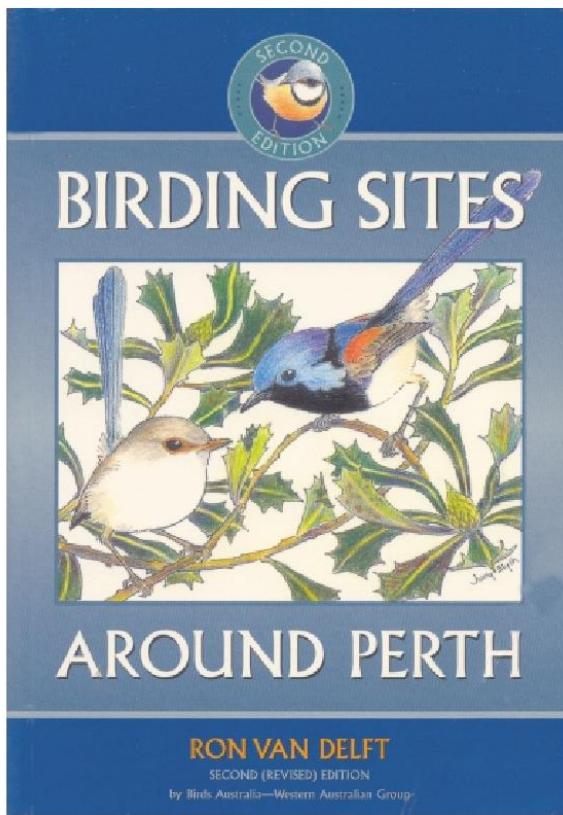
Aloes in the Southern African Area attract hummingbirds and demonstrate how birds at the Garden enjoy the diversity of plants in this collection.

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



Number 57ab in a series of  
Bird Guides of Western Australia

*Birding Sites Around Perth* is a comprehensive guide to Perth's best bird watching sites, including Kings Park, John Forrest National Park and Rottnest Island.

This revised and enlarged edition describes forty-six sites within a 60 kilometre radius of the city, with excellent location maps, lists of birds regularly seen, and notes on species of special interest. Also provided are suggested bird watching tours for local enthusiasts and visitors, and a wealth of information on endemic species. Over 200 birds are featured in 165 pages.

Illustrated throughout with colour photographs and pencil drawings, *Birding Sites Around Perth* is an excellent introduction to bird watching and to Perth's wildlife heritage.

Copies of the book are available for purchase from the Birds Australia office during office hours or available by post.

**WHAT IS BIRDS AUSTRALIA?**

Birds Australia is a non-profit national organisation working for the enjoyment, study and conservation of Australia's birds. The WA group of Birds Australia has members statewide and offers a variety of activities for members, including conservation and research projects.

Activities and services include excursions, camp-outs, bird surveys and social activities. We also have a library, books for sale and information about birds.

To view our full range of bird guides and bird lists, visit our web site.

**INTERESTED?**

Contact us at:

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

Phone: (08) 9383 7749  
Fax: (08) 9387 8412  
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