

Wildlife Watching using Automated, Autonomous Cameras

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Unique

- Delivers a “deeper, more candid, more intimate view of the natural world”*
- Doesn’t disturb the birds/wildlife so you see more natural behaviors
- You don’t have to stay in a blind for hours or days

Automated Camera Features

- Programmable – set it and forget it
- Still pictures or video or both
- Flash option / Night vision infra-red
- Weatherproof
- Tripod mounted, tree mounted or on ground
- Motion activated – various setting to fine tune
- Features on some models:
 - Time-lapse
 - Laser Aiming
 - Wireless connectivity to phones for control

Setup Options on Bushnell Trophy Cam

Parameter	Settings (Bold=default)	Description
Mode	Camera , Video, Hybrid	Selects whether still photos or video clips are captured when the camera is triggered. Hybrid mode combines both Camera and Video, so a still photo and a video clip are both captured for each trigger.
Image Size <i>(only affects still photos in Camera or Hybrid modes)</i>	3M Pixel, 5M Pixel , 8M Pixel,	Selects resolution for still photos from 3 to 8 megapixels. Higher resolution produces better quality photos, but creates larger files that take up more of the SD card capacity (fills up faster). 5M is a good compromise between quality and file size.

Setup Options on Bushnell Trophy Cam

Parameter	Settings (Bold=default)	Description
Image Format <i>(only affects still photos- format for video is tied to Video Size)</i>	Full Screen , Wide Screen	Selects 4:3 (Fullscreen, like old TV sets) or 16:9 (Widescreen, like new flat TVs) "aspect ratio" for still photos. If you like to view your photos on a TV set or computer monitor, you can set the format to match it.
Capture Number <i>(only affects still photos in Camera or Hybrid modes)</i>	1 Photo , 2 Photo, 3 Photo	Selects how many photos are taken in sequence per trigger in Camera mode. This setting affects photos taken in Field Scan mode as well (to snap two photos every 10 minutes, for example). <i>Please also refer to the Interval parameter.</i>

Setup Options on Bushnell Trophy Cam

Parameter	Settings (Bold=default)	Description
LED Control (Multi-Flash feature)	Low, Medium, High	<p>Controls how many LED lamps fire when images are taken in low light. "High"=all 32 LEDs fire, which is the default setting. Set to Medium or Low if you are getting overexposed flash photos or will place the camera at very close range to the subject you want to photograph. In general, select High if most of your intended subjects will be over 30 ft. from the camera, Medium for the 15 to 30 ft. range, and Low for subjects under 15 ft. away. <i>Note: in video mode, 24 LEDs fire in both High & Medium (default) settings. Set to Low if videos are overexposed.</i></p>



Setup Options on Bushnell Trophy Cam

Parameter	Settings (Bold=default)	Description
Camera Name	(Input) <i>See "Using the Setup Menu Input Screens"</i>	Allows the user to set a custom name for the camera. Useful for ID purposes when multiple cameras are setup, since each camera will imprint its name on all photos (but not videos) it captures.
Video Size <i>(only affects video clips in Video or Hybrid modes)</i>	1280x720, 640x480 , 320x240	Selects video resolution (in pixels per frame). Higher resolution produces better quality videos, but creates larger files that take up more of the SD card capacity (fills up faster). The default 640x480 is VGA video in standard 4:3 format. The 1280x720 setting provides "widescreen" format HD video. Using high speed SD cards (SanDisk [®] Ultra [®] or Extreme [®] series or similar) is recommended if you will use the 1280x720 video setting.

Setup Options on Bushnell Trophy Cam

Parameter	Settings (Bold=default)	Description
Video Length <i>(only affects video clips in Video or Hybrid modes)</i>	10S (second) default, with 60S to 5S possible range	Sets length per captured video clip. Settings begin with 10 second default when parameter is first selected. After stepping down to 5S, video length settings start over at 60S.
Interval	10S (second) default, with a 60M (minute) to 1S (second) range of settings available. <i>(60M-1M are set in one minute increments, 59S-1S are set in one second increments)</i>	Selects the length of time that the camera will "wait" until it responds to any additional triggers from the PIR after an animal is first detected and remains within the sensor's range. During this user set "ignore triggers" interval, the camera will not capture photos/videos. This prevents the card from filling up with too many redundant images. Settings begin with 10 second default when parameter is first selected. <i>Note: after setting down past "1S", settings start over at "60M".</i>

PIR = Passive
 Infra-Red
 (Motion
 Sensor)

Setup Options on Bushnell Trophy Cam

Parameter	Settings (Bold=default)	Description
Sensor Level	Low, Normal, High, Auto	Selects the sensitivity of the PIR sensor. The "High" setting will make the camera more sensitive to infrared (heat) and more easily triggered by motion, and the "Low" setting makes it less sensitive to heat and motion. The High setting can be useful when the ambient temperature is warm (making it more difficult for the sensor to detect animals), and the Low setting may help in cold weather if the camera is being triggered too often by anything warmer than the surroundings. "Normal" is for average or moderate conditions. The default "Auto" setting will allow the camera to determine the best setting based on its current operating temperature. This is an ideal setting if the weather is expected to change significantly during the period the camera will be used.

PIR = Passive
Infra-Red
(Motion
Sensor)

Setup Options on Bushnell Trophy Cam

Parameter	Settings (Bold=default)	Description
NV (Night Vision) Shutter	High , Medium, Low	Affects the shutter speed during Night Vision operation. High will freeze motion better, but photos may be darker. A Low shutter speed setting will produce brighter photos, but rapid motion may be blurred. Medium is a good compromise.
Camera Mode	24 Hrs , Day, Night	Allows user to limit operation to only day or night period if desired. An ambient light level sensor determines "Day" vs "Night" automatically. This setting takes priority over any Field Scan settings.

Setup Options on Bushnell Trophy Cam

Parameter	Settings (Bold=default)	Description
Time Stamp	Off, On	Select "On" if you want the date & time (that the image was captured) imprinted on every photo/video, select "Off" for no imprint. Note: the current temperature, moon phase, and (user set) camera name will also be imprinted on your still photos. Models 119576/119577 imprint the barometric pressure as well (<i>still photo mode only</i>).
Set Clock	(Set)	Press OK and use the UP/DOWN keys (to change the setting) and LEFT/RIGHT keys (to move to the next field) to set the hour (<i>24-hr format only, "00"=midnight, "12"=noon</i>) and minute, and then (on the lower row), the year, month and date.

Setup Options on Bushnell Trophy Cam

Parameter	Settings (Bold =default)	Description
Field Scan	On, Off (After On is selected): "A" Start/Stop, "B" Start/Stop, Interval	Turns Field Scan (Time Lapse) recording mode on/off. When activated, Field Scan forces the camera to take photos or videos even when it is not triggered by a nearby live animal, useful for constant monitoring of an area that might be far away from the camera. The user can set the start and stop times for up to two independent "blocks" of Field Scan recording, as well as the interval time between each photo/video. To ensure correct operation, avoid setting overlapping start/stop times for Field Scan A and B. Please read the "Field Scan 2x..." section of this manual for details on using this feature. NOTE: If the "Camera Mode" parameter is set to "Day" or "Night" operation only, that will take priority over your Field Scan settings. Set Camera Mode to "24HR" if you are setting day and night Field Scan start and/or stop times.

Setup Options on Bushnell Trophy Cam

Parameter	Settings (Bold =default)	Description
Coordinate Input	Off , On <i>See "Using the Setup Menu Input Screens"</i>	Allows the user to input latitude and longitude coordinates for the camera's location. This data will be embedded in the files saved on the camera's SD card (if "On" is selected). This makes it possible to see each camera's location as a "pushpin" on Google Earth maps when reviewing a folder full of photos from multiple cameras, or use other "geotag" capable software (Picassa, etc).

Setup Options on Bushnell Trophy Cam

Parameter	Settings (Bold=default)	Description
Video Sound <i>(only affects video clips in Video or Hybrid modes)</i>	On , Off	Select "On" to record audio along with the video when the camera is set to video mode (saved file sizes will be slightly larger).
Default Set	Cancel , Execute	Select "Execute" and press OK to restore all parameters to the original factory default settings. If the camera is behaving oddly and you think you may have changed the setting for something accidentally (but aren't sure which one), this will reset all parameters to their most commonly used or "generic" settings.

Bushnell Trophy Camera HD



Wingscapes BirdCam 2.0

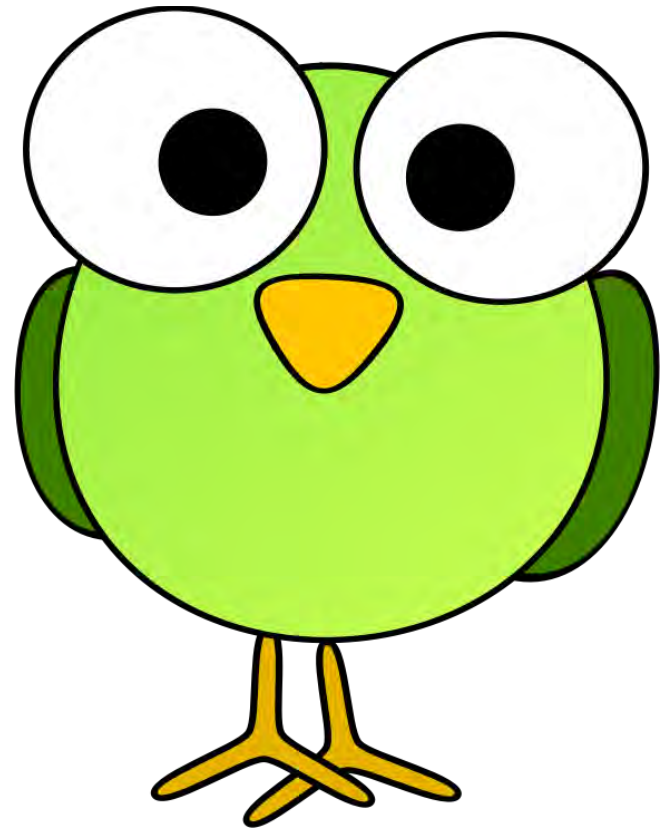


Other Automated Nature Cameras

- ABASK Trail Surveillance - \$116
- Stealth Cam Megapixel Digital Scouting Camera P14 - \$65
- Aoleca 720P 8MP HD Wildlife Camera - \$80
- Crenova Game and Trail Hunting Camera - \$90
- Wildgame Innovations Crush 12MP Touch Scouting LED Trail Camera - \$195
- Bestguarder HD IP66 Game & Trail Camera - \$130

Nest Cams – Wired and Wireless



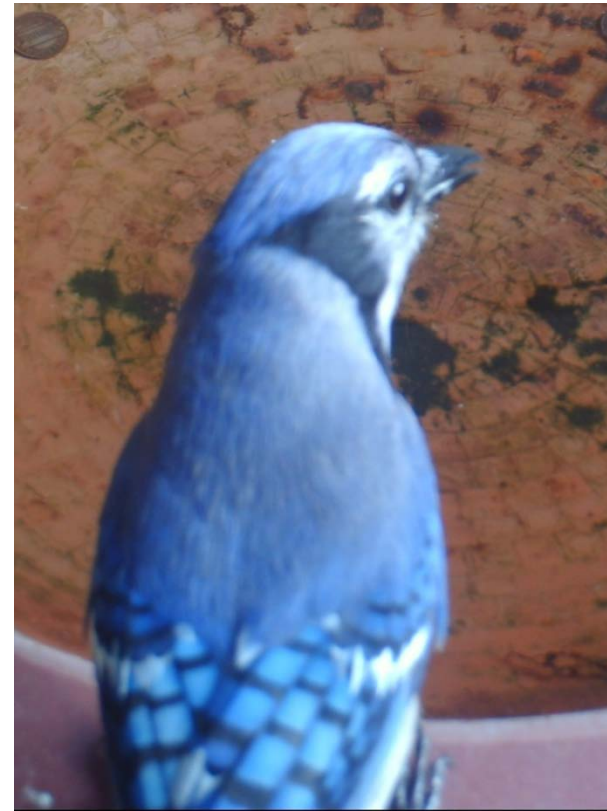


Bird Bath Blue Jay



BIRDCAM-01

05/30/14 04:28 PM



White-Wing Dove at Bird Bath



BIRDCAM-01

03/17/13 03:32 PM



BIRDCAM-01

09/05/13

Others at Bird Bath



BIRDCAM-01



BIRDCAM-01

06/06/14 03:47 PM



03/24/12 08:50 AM

Suet Log Woodpeckers

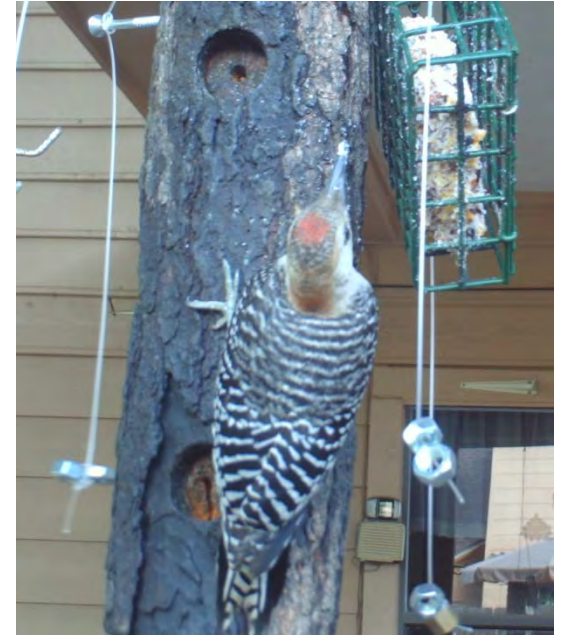


BIRDCAM-01

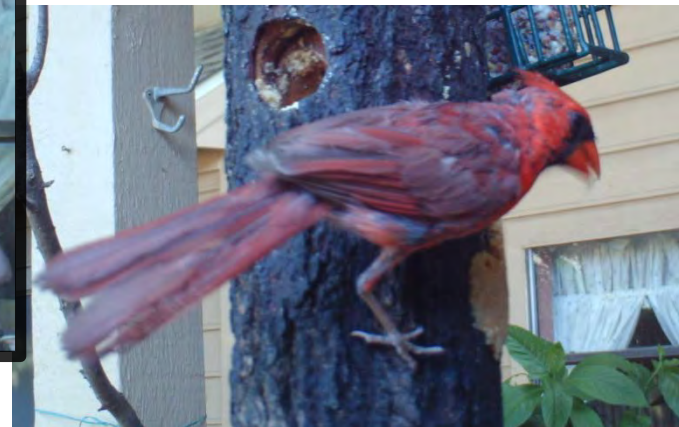
05/24/14



Fledgling Woodpeckers



Other Birds at Suet



Hummingbirds Feeding



Videos, too



Bird Bath Action



Bird Bathing



Fledgling Blue Jay



Awkward Fledgling Flight



Fledgling Cardinal & Bird Bath



Finches at HB Feeders



Ground Level Birds-Eye View



06/15/14 03:48 PM



BIRDCAM-01

06/17/14 04:05 PM

WW Dove & Fledglings



Videos Can Show Species Interactions



Surprises on video



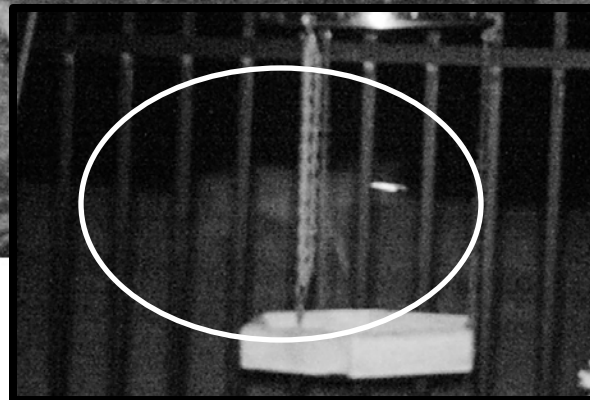
Time-lapse to Movie



BIRDCAM-01

03/24/12 05:49 PM

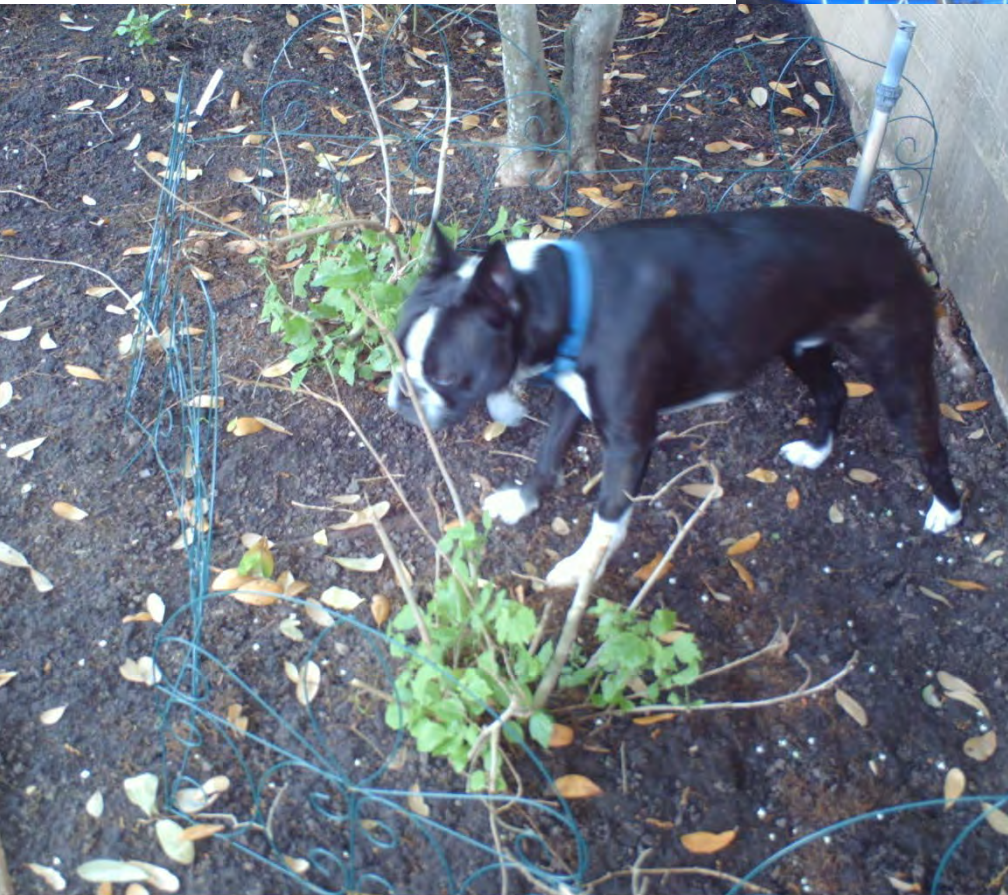
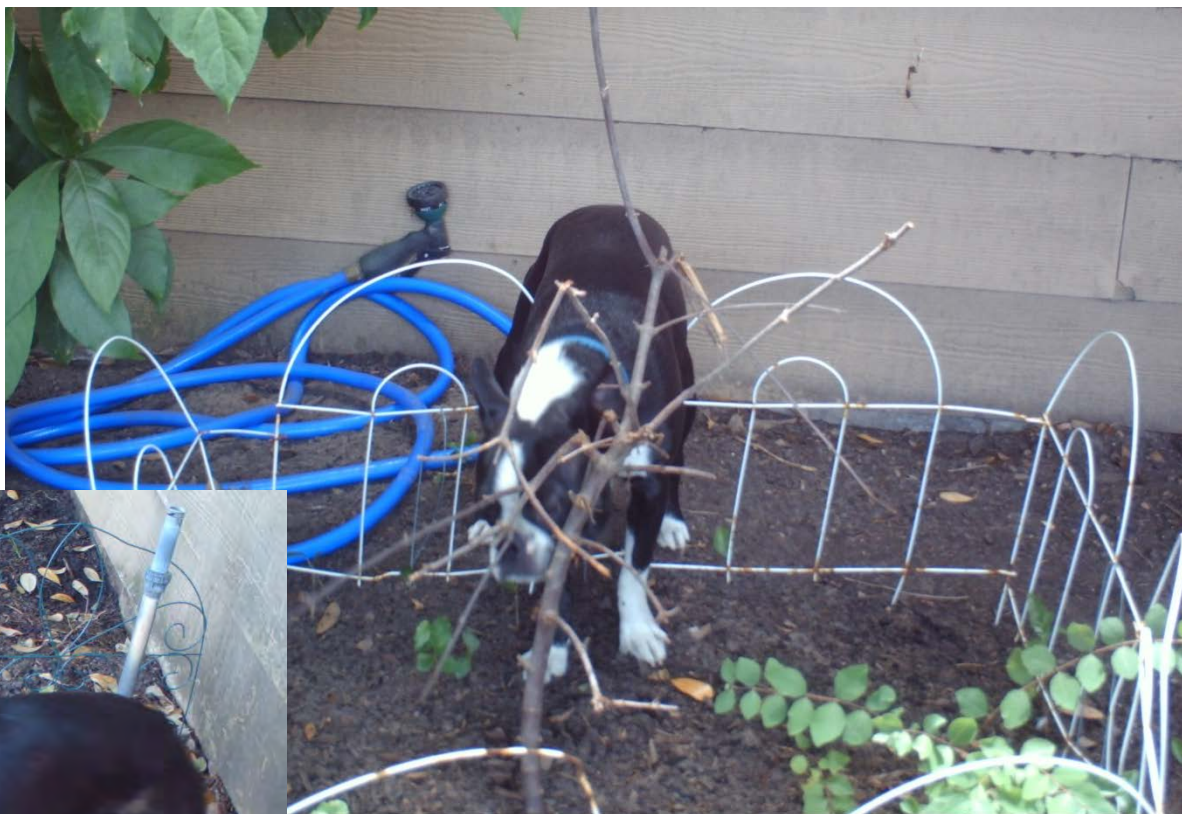
Unknown Animals



(M) CM01 41°F5°C ●

04-07-2016 04:39:36

Answering Questions



01 03/08/13 10:25 AM

DCAM-01 04/22/14 06:14 PM

Purple Martins



EK000009 PMs singing - movie.AVI



EK000006 lots of PMs perching.AVI



EK000018 PM & baby begging.AVI



EK000056 PM baby begging.AVI



Disturbing Evidence



EK000003 rat entering PM house.AVI



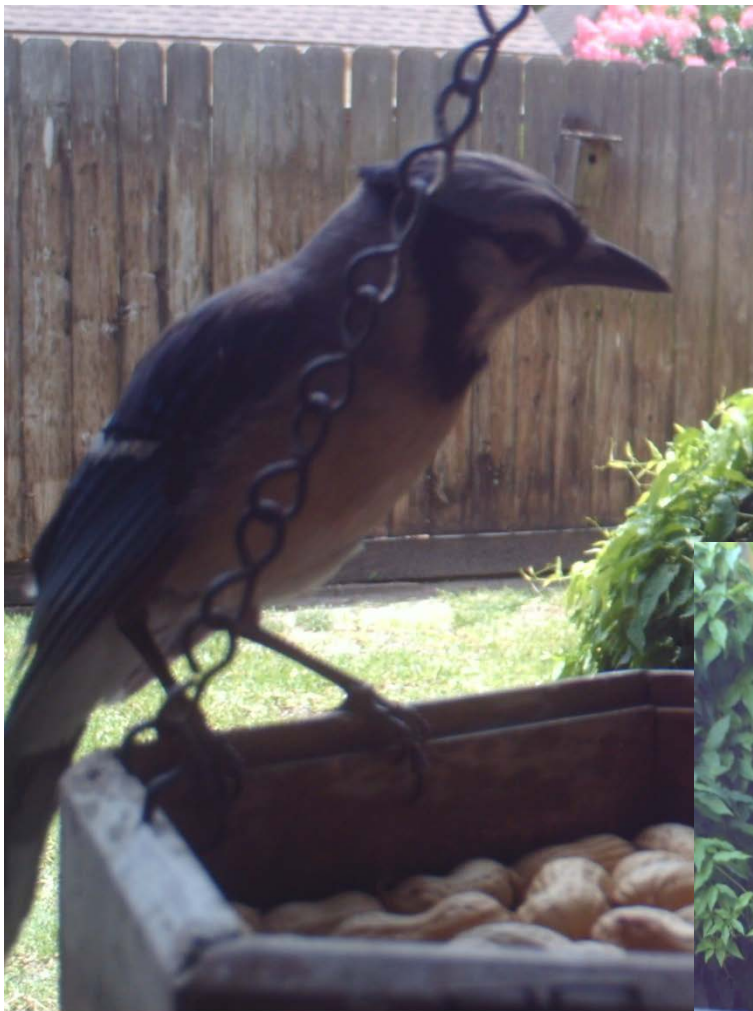
EK000004 rat grooming on PM house.AVI



Wingscapes BirdCam 2.0



Jays Love Peanuts in Tray Feeder



BIRDCAM-01



7/20/14 09:59 AM



Anatomy of Jay's Tongue



06/22/14 01:08 PM

Curiosity?



BIRDCAM-01

06/22/14 10:58



BIRDCAM-01

06/21/14



BIRDCAM-01

06/22/14 01:15 PM

Florence King- Gonzales Co.

- “Birding with Flo” on FaceBook
- Gonzales County – south of Luling / east of San Antonio



Florence King's Wildlife - Gonzales



Florence King's Wildlife - Gonzales



Florence King's Wildlife - Gonzales



Florence King's Wildlife - Gonzales



Florence King's Wildlife - Gonzales



Florence King's Wildlife - Gonzales



Florence King's Wildlife - Gonzales



Florence King's Wildlife - Gonzales



Florence King's Wildlife - Gonzales



You never know what you'll find!



BIRDCAM-01

06/21/14 01:29 PM

You never know what you'll find!



BIRDCAM-01

06/13/14 10:08 AM

Questions?

- 1st – How to questions, etc?
- 2nd – Share your experiences