

# NOTE ON THE USE OF PHOTOGRAPHS

Please note that this material is being circulated for the personal educational use of the student of the *TAS Empid* class. Please do not distribute, copy, post, share, or further disseminate any of this material.

Most of the photographs used in these presentations are credited to the eBird contributors named in the photographs and to the Macaulay Library of The Cornell Laboratory of Ornithology. Other photographs are credited as indicated.

# QUIZ A

## WHAT CHARACTERISTICS DO ALL EMPIDS (GENERALLY) SHARE?

- ▶ Plumage
  - ▶ Drab tones of black-ish, gray-ish, white-ish, olive-ish, brown-ish, yellow-ish
  - ▶ Black-ish wings
  - ▶ White-ish wing-bars & tertial edges
  - ▶ Eye-rings
- ▶ Structure:
  - ▶ Flycatcher bills
  - ▶ Short wings
- ▶ Behavior
  - ▶ Fly-catch from perches
  - ▶ Short calls & simple songs
  - ▶ Often flick wings & tails

# QUIZ B

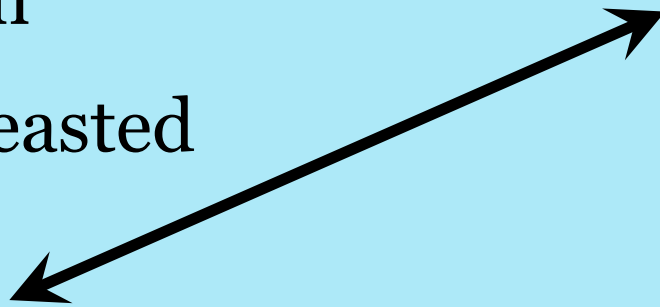
HOW MANY EASTERN EMPIDS ?  
HOW MANY WESTERN EMPIDS ?  
CAN YOU NAME THEM ?

## Western Empids

- 1 Hammond's
- 2 Gray
- 3 Dusky
- 4 Western
- 5 Buff-breasted
- 6 Willow

## Eastern Empids

- 1 Least
- 2 Yellow-bellied
- 3 Acadian
- 4 Willow
- 5 Alder



# QUIZ C

## “BUT FIRST, IS IT AN EMPID?”

- ▶ Determine which of several photos are Empids and which are not.
- ▶ (Write it down, then wait for everyone.)

1



Photo by Michael Warner

Eastern  
Phoebe

QUIZ C

Empid

Group A

2



Photo by Jim Merritt

4



Photo by Judy Hwa

Bell's  
Vireo

3



Photo by Don-Jean Léandri-Breton

Juniper  
Titmouse

1



Photo by August Davidson-Onsgard

# Group B

Western QUIZ C  
Wood-  
pewee

Bushtit

2



Photo by Sharrif Uddin

4

**Empid**



Photo by Jack Williamson

3

**Empid**



Photo by David Beadle

1



Photo by Linda Chittum

Black-tailed  
Gnatcatcher

QUIZ C

Group C

2



Empid

Photo by Etienne Artigau

Empid  
4



Photo by Herb Elliot

3



Photo by Arlene Ripley

Verdin  
(juvenile)

1



Photo by Sam Hough

Lucy's  
Warbler

QUIZ C

Group D

2

Empid



Photo by Mark Chavez

4



Photo by Ryan Merrill

Western  
Wood-  
pewee

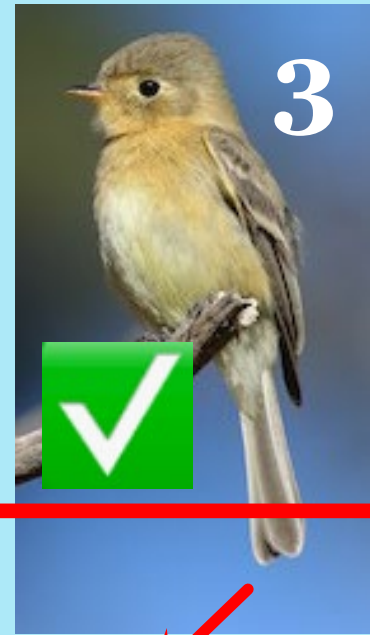
Northern  
Beardless  
Tyrannulet

3



Photo by Francis Canto jr.

QUIZ D  
EMPID EXERCISE 4  
“SORT WESTERN EMPIDS  
INTO GROUPS?”



QUIZ D  
Jeff's Sorting  
(4 Groups)



QUIZ E

PRIMARY PROJECTION

(EACH PAGE = 1 SPECIES)

ANSWERS

# QUIZ E

## PRIMARY PROJECTION – BIRD 1: MEDIUM = WESTERN



QUIZ E  
PRIMARY PROJECTION –  
BIRD 2: LONG = **HAMMOND'S**



Photo by Gil Ewing



Photo by Nigel Voaden

# QUIZ E PRIMARY PROJECTION – BIRD 3: SHORT = GRAY



Photo by Vickie Derri



Photo by Caleb Strand



Photo by Jerry Ting

QUIZ E  
PRIMARY PROJECTION –  
BIRD 4: MEDIUM = **DUSKY**



Photo by Paul Suchanek



Photo by David Zitten

QUIZ F

STRUCTURE

PUT A NAME WITH EACH  
EMPID

(3 PIX ON PAGE A, 3 PIX ON PAGE B...)

ANSWERS

Hammond's

# SPECIES 1 QUIZ F



Gray

# SPECIES 2 QUIZ F



Photo by Caleb Strand



Photo by Cameron Rutt



Photo by Charles Lyon

Least

# SPECIES 3

## QUIZ F



Photo by Kevin Metcalf



Photo by Brian Hicks



Photo by Alvan Buckley

Willow

# SPECIES 4

## QUIZ F



Photo by Tom Myers



Photo by Eric Michael



Photo by Matt Davis

# SPECIES 5

Dusky

## QUIZ F



Photo by Jacob Garvelink



Photo by Jim Merritt



Photo by Logan Lalonde

Yellow-  
bellied

# SPECIES 6

## QUIZ F



Photo by Johanne Chafette



Photo by Brian Sullivan



Photo by Jeremiah Tremble

“Western”

# SPECIES 7

## QUIZ F



Photo by Teresa Moulton



Photo by Vic Samstag



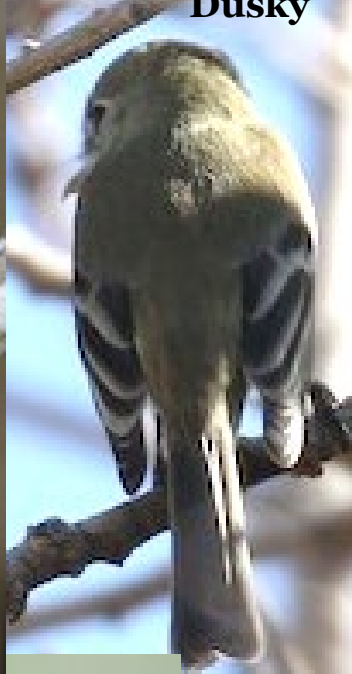
Photo by Levi Plummer



**Western**



**Yellow-bellied**



**Dusky**



**Acadian**



**Gray**



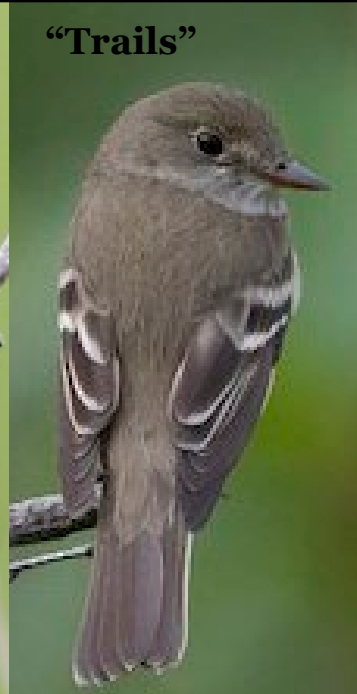
**Hammond's**



**Least**



**"Trails"**



**"Trails"**



**Western**

QUIZ G  
MATCH DESCRIPTION WITH  
SPECIES

# QUIZ G

## MATCH DESCRIPTION & SPECIES

### ► Clues:

1. Conspicuous, and usually narrowed at top & broadened behind eye (often to a point). **“Western”**
2. **White** & well-developed, but not always conspicuous.  
**Dusky**
3. Usually conspicuous, complete, well-defined & frequently thicker behind eye. **Hammond’s**
4. Inconspicuous but complete. **Gray**

QUIZ H  
EYE-RING  
(ONE SPECIES PER PAGE)

QUIZ H:  
EYE-RING  
(ONE SPECIES PER PAGE)

ANSWERS

# QUIZ H: EYE RING – BIRD 1

## Dusky

White & well-developed, but not always conspicuous. May be broken or show “spectacles”.



# QUIZ H: EYE RING – BIRD 2

## Least

Bold, complete, but messy eye-ring. Of uniform width. Often shows a white "kick" or "teardrop" in rear.



Photo by Karla Treinen

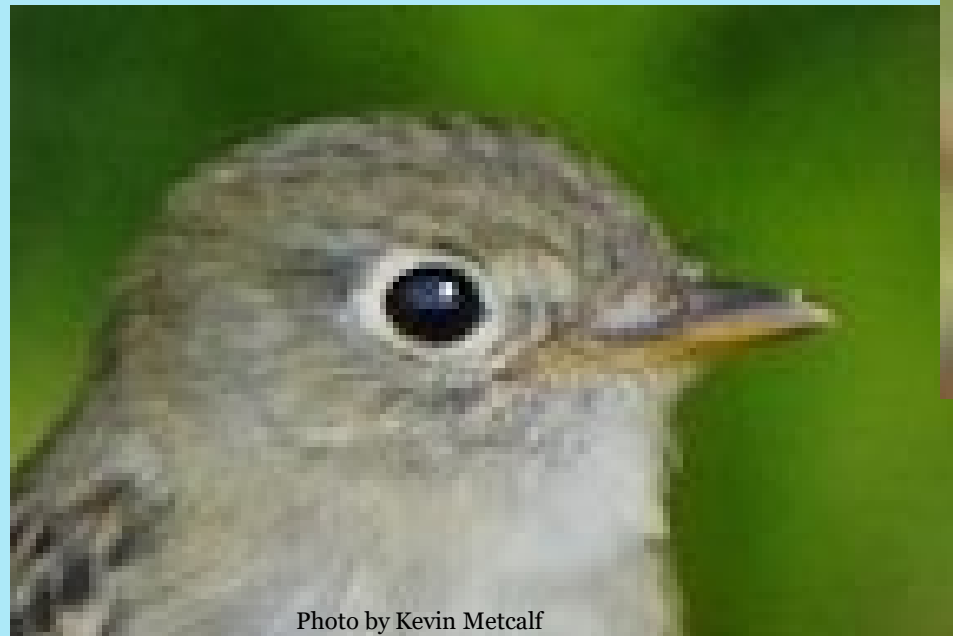


Photo by Kevin Metcalf

# QUIZ H: EYE RING – BIRD 3

**“Western”**

Conspicuous, and usually narrowed at top & broadened behind eye (often to a point).



# QUIZ H: EYE RING – BIRD 4

## Hammond's

Usually conspicuous,  
complete, well-defined &  
frequently thicker behind  
eye.



# QUIZ H: EYE RING – BIRD 5

**Gray**

Inconspicuous but complete. Some show “spectacles”.

Photo by Sharyn Isom



Photo by Neil Rucker

**QUIZ I: HEAD, THROAT, & FACE  
COLOR & CONTRAST**

**(ONE SPECIES PER PAGE)**

# QUIZ I: HEAD, THROAT, & FACE COLOR & CONTRAST SPECIES 1



Gray



# QUIZ I: HEAD, THROAT, & FACE COLOR & CONTRAST

## SPECIES 2

Yellow-bellied

Photo by Dan Jones



Photo by Michael Woodruff

# QUIZ I: HEAD, THROAT, & FACE COLOR & CONTRAST SPECIES 3

Photo by Charlotte Morris



Western



Photo by Mark Stephenson

# QUIZ I: HEAD, THROAT, & FACE COLOR & CONTRAST SPECIES 4

Photo by Brad Imhoff



Willow

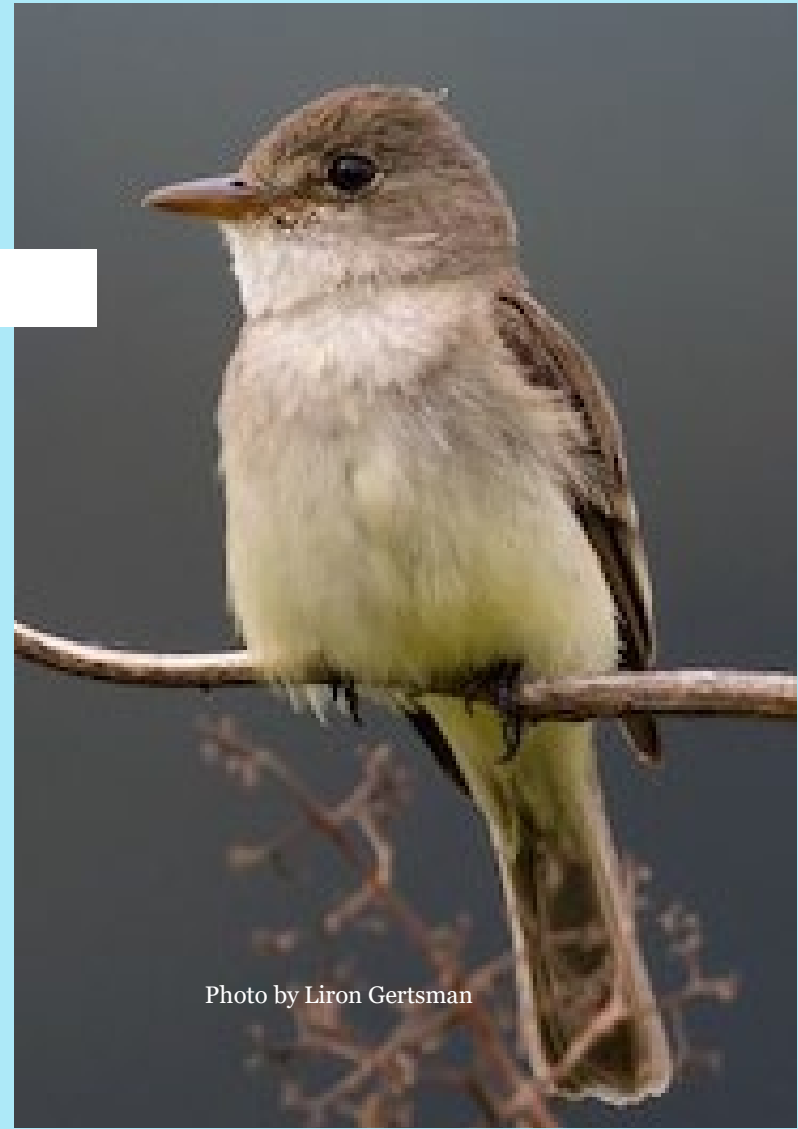


Photo by Liron Gertsman

# QUIZ I: HEAD, THROAT, & FACE COLOR & CONTRAST SPECIES 5



Photo by Tina Toth

Dusky



Photo by Jordan Roderick

# QUIZ I: HEAD, THROAT, & FACE COLOR & CONTRAST SPECIES 6



Photo by Sam Hough

Hammond's



Photo by Barbara Taylor