



Bald Eagle on UBB Survey © 6/6/2013 Tim Gallagher



Wood Ducks on UBB Survey © 7/3/2013 Tim Gallagher

BIRDS OF LAKE WENATCHEE AREA - SURVEYS & MONITORING BY HEATHER MURPHY

"BIRDS, FORESTS, WATERWAYS - CONNECT & PROTECT"



Pileated Woodpecker on UBB Survey © 3/30/2014 Tim Gallagher



American Dipper on UBB Survey © 11/3/2016 Tim Gallagher



Upper Basin Birders VOLUNTEERS © 2012 H..Murphy



Birders -To -Learners © 2009 H.Murphy

UPPER BASIN BIRDERS

Citizen Science Project with U.S. Forest Service , Chelan-Douglas Land Trust, NCW Audubon and Cornell Lab (combined data 1999 to 2017) for Wenatchee River Basin

203 Species of Birds observed
1770 Checklists entered by UBB
(Updated 7/3/17 H.Murphy)

21 Birding Stations
(4 on Fish Lake Pontoon Boats)

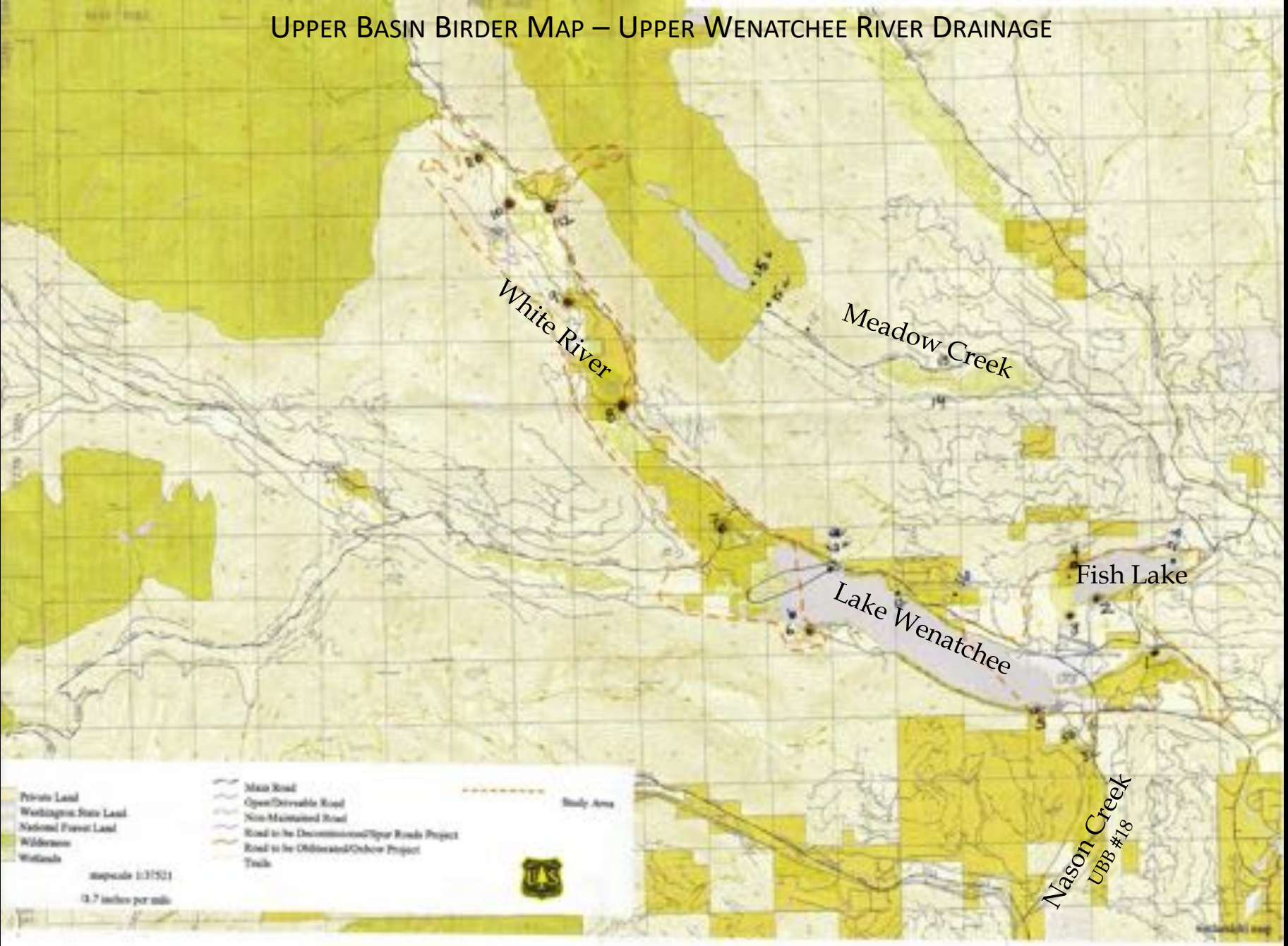
Year-round Monthly Surveys

UBB volunteers began in 2003



Upper Basin Birders © 2010 HAW Murphy

UPPER BASIN BIRDER MAP – UPPER WENATCHEE RIVER DRAINAGE



Nason Creek
UBB #18



Osprey at Fish Lake UBB Station #2b © 7/3/2013 Tim Gallagher



Lesser Yellowlegs at Fish Lake Bog UBB #3 © 2009 Lori Aylesworth



Rufous Hummingbird Nest
At Lake Wenatchee UBB #5b
2009 © Heather Murphy

Birds & Habitats of Upper Basin Birders

The U.S. Forest Service began field surveys in 1999 to determine habitat quality in the Upper Wenatchee Basin. The projects prompting these surveys were the White River Restoration project in partnership with the Chelan-Douglas Land Trust, Chelan County and WA. Dept. of Fish and Wildlife; AND the Fish Pole Timber Sale with U.S. Fish and Wildlife Service. Monitoring funding ended in 2003, a volunteer birding group was created. Forest Service biologists (Heather Murphy and Janet Millard) developed field survey protocols and data input. The protocol was submitted to eBird, managed by Cornell Bird Lab and Audubon, Brian Sullivan assisted in data analysis.



Nashville Warbler
2009 © Lori Aylesworth



Swainson's Thrush Nest
2007 © Heather Murphy



Barn Swallow
2009 © Lori Aylesworth



Yellow-rumped Warbler
2009 © Lori Aylesworth



U.S. Forest Service volunteers

Upper Basin Birders – Objectives (see April 2, 2008 protocol)



- 1) Detect bird species and relative abundance in three riparian habitats:
 - a. Forested,
 - b. Wetland
 - c. Open Water;
- 2) Determine if sites are used for Spring/Fall migration only OR also for breeding;
- 3) Compare the number and type of species detected at each site to determine habitat importance within the study area and to Chelan & Douglas Counties.

4/5/17 by Heather A. Murphy, USFS (retired) Wildlife Biologist

Illustrations this page by Heather Murphy © 2009-2016. OPEN WATER: Osprey of Fish Lake;
 FOREST: Red-breasted & Red-naped Sapsuckers compared; RIVER: American Dipper;
 DECIDUOUS FOREST: Golden-crowned Kinglet & Brown Creeper (winter);
 OPEN WATER/RIPARIAN EDGE: Belted-kingfisher, pair of Cinnamon Teals, White-throated Sparrow;
 WETLANDS: Western Sandpipers; FOREST: Red-breasted Nuthatch.





Lake Wenatchee State Park UBB#5a © 10/6/2016 Murphy



Twin Lakes Hike UBB #15



Lake Wenatchee State Park #5a Winter © 2015 Murphy

UPPER BASIN BIRDERS VOLUNTEERS SURVEYS YEAR ROUND



Heather Murphy
UBB Coordinator
1999 to 2017 (current)





UBB data 1999 to 2014 Bar Chart (Sapsuckers to Sparrows) eBird.org



KEY: [insufficient data] [seen by widespread]

Download Historical Data



all UBB Stations

The Year 2009 in Review

- **83 species** was the high monthly count in May 2009
- **126 total species** observed in 2009 (*by 2017 UBB documented 205 species*)
- **87 checklists** entered for UBB in 2009 year (March through September)



Data updated 5/07/2010 by H.Murphy

(Note: volunteer Marilyn Sherling entered a backlog of UBB data in 2015; not all data is reflected in this 2010 slide)

Summary

	Jan 2009	Feb 2009	Mar 2009	Apr 2009	May 2009	Jun 2009	Jul 2009	Aug 2009	Sep 2009	Oct 2009	Nov 2009	Dec 2009
Number of Species	--	5	17	64	83	80	62	75	38	--	--	--
Number of Individuals	--	10	59	1,517	1,801	1,933	1,144	3,073	814	--	--	--
Number of Checklists	--	1	3	9	17	23	8	20	6	--	--	--



Napeequa Campground © 11/21/2016 Heather Moravec

UBB Station #12b Napeequa/Tall Timber Ranch eBird Species List

1999 to 2012 counted 84 species



Rufous Hummingbird © 5/4/2017 Tim Gallagher

UBB #12b

Tall Timber/Napeequa

Frequency of observations in the selected location(s):

Number of taxa: **84 species**

Sample Size:

Species List — Ornithological Order

Canada Goose
Mallard
Common Merganser
Ruffed Grouse
Dusky Grouse
Sooty Grouse
Turkey Vulture
Osprey
Red-tailed Hawk
Golden Eagle
Peregrine Falcon
Spotted Sandpiper
Common Nighthawk
Vaux's Swift
Rufous Hummingbird
Calliope Hummingbird
Belted Kingfisher
Red-naped Sapsucker
Red-breasted Sapsucker
Downy Woodpecker
Hairy Woodpecker
Northern Flicker
Pileated Woodpecker
Olive-sided Flycatcher
Western Wood-Pewee
Willow Flycatcher
Hammond's Flycatcher
Dusky Flycatcher
Hammond's/Dusky Flycatcher
Say's Phoebe
Cassin's Vireo
Warbling Vireo
Red-eyed Vireo
Steller's Jay
Clark's Nutcracker
American Crow
Common Raven
Northern Rough-winged Swallow
Tree Swallow
Violet-green Swallow
Bank Swallow
Barn Swallow
Cliff Swallow
Black-capped Chickadee
Mountain Chickadee
Chestnut-backed Chickadee
Red-breasted Nuthatch
Brown Creeper
House Wren
Pacific Wren

www.eBird.org at Cornell Lab of Ornithology

Data storage site for Upper Basin Birders' Citizen Science project. Started in 1999 by USFS, CDLIT and volunteers joined effort in 2003.



American Dipper
Golden-crowned Kinglet
Ruby-crowned Kinglet
Townsend's Solitaire
Veery
Swainson's Thrush
Hermit Thrush
American Robin
Varied Thrush
Cedar Waxwing
Orange-crowned Warbler
Nashville Warbler
MacGillivray's Warbler
American Redstart
Yellow Warbler
Yellow-rumped Warbler
Townsend's Warbler
Wilson's Warbler
Spotted Towhee
Chipping Sparrow
Vesper Sparrow
Fox Sparrow
Song Sparrow
White-crowned Sparrow
Dark-eyed Junco
Western Tanager
Black-headed Grosbeak
Brown-headed Cowbird
Purple Finch
Cassin's Finch
House Finch
Red Crossbill
Pine Siskin
Evening Grosbeak

Non-profit Groups Aiding Bird Habitat in the White River:

- Upper Basin Birders
- Leavenworth Spring Bird Fest
- Chelan-Douglas Land Trust
- North Central WA Audubon
- Tall Timber Ranch
- Wenatchee Naturalist
- Barn Beach Reserve
- North Central Educational Service District
- Wenatchee Valley College
- Environment For The Americas
- BirdNote
- Team Naturaleza!
- Dancing With Birds
- Wenatchee Valley Museum
- plus others

and the:

- U.S. Forest Service,
- U.S. Fish & Wildlife Service
- WA Dept of Fish & Wildlife





Immature Bald Eagles at Fish Lake UBB Station #2b © 7/5/2012 Tim Gallagher

Some Findings of Upper Basin Birders 19 years of Monitoring

1) Relative Abundance of species?

Bald Eagle population appears increasing.

The years 1999 to 2009, the July count found 2 to 9 individuals. The years 2010 to 2016 the July count found 8 to 40 individuals. BAEA are year-round.

Barrow's Goldeneye population appears decreasing.

1999 to 2009 observed group-size between 18 to 28. 2010 to 2017 observed group-size initially high at 44, now down to 11. BAGO are year-round.





Western Grebe on UBB Survey © 11/3/2016 Tim Gallagher



American Coot on UBB Survey © 11/1/2012 Tim Gallagher

Some Findings of Upper Basin Birders 19 years of Monitoring (continued)

2) Spring Migration & Fall Migration

Waterbirds, such as **American Coots** migrate in mid-March thru May and again mid-August thru December. **Western Grebes** mostly are found in the fall migration of September thru November.

Sonbirds, such as **Yellow Warbler** and **Rufous Hummingbird** (plus other neotropical migrants) are here for breeding season, arriving mid-April thru mid-September (RUHU April 1st thru September). We discovered the **Red-winged Blackbird** is a year round resident to UBB, shifting to lower lands during the harsh part of winter. The unique **American Pipit** has an elevational migration, moving through to alpine regions in May and again late-September to early October.

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Yellow Warbler © 7/5/2012 Tim Gallagher



Rufous Hummingbird © 5/4/2017 Tim Gallagher



Red-winged Blackbird ©
4/21/2017 Tim Gallagher



American Pipit © 5/4/2017 Tim Gallagher



American Dipper on UBB Survey © 11/3/2016 Tim Gallagher



American Dipper on UBB Survey © 5/19/2017 Tim Gallagher

Some Findings of Upper Basin Birders 19 years of Monitoring (continued)

3) Unique Species Specific to Important Habitats

The **American Dipper** need clean, fast moving waters with aquatic macroinvertebrates and small fish. They nest on wetted-ledges, such as waterfalls or underside of bridges or root wads. AMDI are observed year-round in their habitat sites, though are more frequently seen between January through March.

The **Clark's Nutcracker** needs White-bark Pine as well as other conifers. We are keeping an eye on the CLNU, which is most frequently seen between August and October.



American Dipper on UBB Survey © 5/4/2017 Tim Gallagher



Sooty Grouse on UBB Survey © 5/19/2012 Tim Gallagher



Barred Owl on UBB Survey © 3/30/12 Tim Gallagher

BIRDS OF THE FORESTS
"BIRDS, FORESTS, WATERWAYS - CONNECT & PROTECT"



Downy Woodpecker on UBB Survey © 5/4/2017 Tim Gallagher



Western Tanager on UBB Survey © 5/20/2012 Tim Gallagher



Trumpeter Swan on UBB Survey © 7/5/2012 Tim Gallagher



Common Yellowthroat on UBB Survey © 5/1/2014 Tim Gallagher

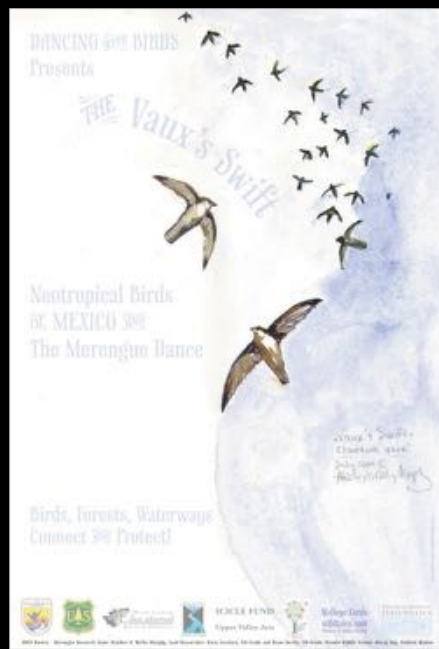
BIRDS OF THE WATERWAYS
"BIRDS, FORESTS, WATERWAYS - CONNECT & PROTECT"



Scaups on UBB Survey © 5/1/2014 Tim Gallagher



Belted Kingfisher on UBB Survey © 7/8/2012 Tim Gallagher



Vaux's Swift Poster
2009 © Murphy & USFS



Hummingbird Four Poster
2008 © H.A.W. Murphy



Chipping Sparrow Poster
2009 © Murphy & USFS



Grosbeak Rain Poster
2006 © H.A.W. Murphy

FINDINGS: NEOTROPICAL MIGRANT HIGHLIGHTS

- Vaux's Swift (arrives late April – through early September) winters in Central America;
- Calliope Hummingbird (mid-May through August) winters in Mexico;
- Rufous Hummingbird (mid-April through mid-September) winter sin Mexico;
- Chipping Sparrow (early May through early October) winters in Mexico;
- Black-headed Grosbeak (mid-May to August) winters in Mexico.



UPPER BASIN BIRDER RESIDENT BIRDS

In eBird one can see the resident birds' abundance during survey periods. Species such as Black-capped Chickadee and American Robin were recorded in each month from March through September in the 2009 survey period.

Beginning birders can start their bird identification skills studying these two species.



COMMON SPECIES NOT OFTEN FOUND IN UPPER WENATCHEE BASIN

Conversely, California Quail, one of the most commonly seen birds in Chelan County, are seldom recorded on UBB surveys (found near home feeding stations).



Scout Master © 2008 Lori Aylesworth

Other birds fairly often seen in Chelan County, but seldom on UBB surveys:
- Black-billed Magpie - Western and Mountain Bluebirds - House Sparrow



Great Blue Ascending © 2009

Lori Aylesworth



Heather A. Wallis Murphy
Blue Heron Dusk © 1998



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Great Blue Heron © 4/21/2017

