The Redstart

Published Since 1932 by the Brooks Bird Club, Inc.
Wheeling West Virginia

Vol. XX No. 4 September 1953 Pages 64-90

W. R. DeGarmo

Editor

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AREA SURVEY FOR THE 1953 FORAY

By George A. Hall

The 1953 Foray at Camp Thornwood, Pocahontas County, West Virginia, was held in the heart of the West Virginia mountain "North" country. The region of the study was rather arbitrarily fixed on those parts of Randolph, Pocahontas and Pendleton Counties included within a circle of twenty mile radius centered at Camp Thornwood. Included then, is a small portion of the Tygart Valley near Beverly, the Cheat-Shaver's Mountain System, the upper portion of the Greenbrier Valley South to Cass, the Burner-Middle Mountain system, parts of the North Fork and South Branch Valleys North to Riverton and Franklin respectively and a part of North Fork Mountain. The region thus blankets the headwaters of the Tygart, Cheat, Greenbrier, Jackson, Cow Pasture, and Potomac Rivers.

According to the usually accepted physiographic classification the region West of the Shaver's Mountain-Back Allegheny Mountain ridge is in the Allegheny Mountain Section of the Appalachian Plateau Province, while East of that line it lies within the Ridge and Valley Province (1). The whole region is one of extremely rugged topography with extensive level land occurring only in the Tygart Valley. The altitudinal range is from 4860 feet on Spruce Knob to 1970 feet at Beverley in the Tygart Valley, 1750 feet on the North Fork near Riverton and 1700 feet on the South Branch of the Potomac near Franklin. Between Cheat Mountain on the West and Allegheny Mountain on the East most of the land lies above 3000 feet. Shaver's Mountain runs for about ten miles with elevations above 4000 feet and five miles of Spruce Mountain lies above 4500 feet. Elevations in the Ridge and Valley Province further eastward do not average as high. This region is characterized by the highly folded rock strata which in some places are nearly vertical.

The dominant surface rocks in the whole region are sandstones and to a lesser extent shales. However in the Ridge and Valley region the heavy folding of the strata has produced many limestone outcrops and so resulted in many small disjunct habitats of particular botanical interest.

As might be expected of a mountainous region the climate is a temperate with the average June temperature in the Greenbrier Valley being 64°F (2). This illustrates the existence of a decided rain shadow produced by the higher mountains and further East the precipitation is even less.

Originally the whole region was densely forested and even today only the valleys have any pronounced amount of cleared land. Except for some of the higher slopes the forest is all of second growth. The forest associations of the region have been excellently described by Braun (4) whose classification is used here. East of Allegheny Mountain the forest is of the Mixed Mesophytic type. The Tygart Valley contains some more southern and western elements in the oak-sugar maple associations. The middle slopes of the mountains are covered with a predominantly beech-maple association. The tops of the highest ridges were originally covered with a red spruce-northern hardwoods forest but this has been largely removed by timbering. Only on Shaver's Mountain does a sizeable nearly virgin tract of this forest remain. Good stands of younger spruce exist also on Cheat and Allegheny Mountains. Some balsam fir still

occurs and the higher ridges are thus typical of the transition between the northern-hardwoods forest and the true spruce-fir forest of northern Canada. East of Allegheny and Spruce Mountains the region is in the oak-chestnut forest type with white and chestnut oaks predominating. In the Greenbrier Valley near Cass a large amount of pine and oak-pine forest occurs.

There are no marsh or open water areas in the region although mountain bogs and swamps occur at many places.

Except for grazing there is very little highly developed agriculture even in the valleys. Most of the region lies within the boundaries of the Monongahela National Forest and the many Forest Service roads provide easy access to all parts of the region.

References:

1. Fenneman, N.M., Physiography of Eastern United States, 1938.
2. West Virginia Geological Survey Report, Pocahontas County, 1929.
3. West Virginia Geological Survey Report, Randolph County, 1931.
4. Braun, E.L., Deciduous Forests of Eastern North America, 1950.

Morgantown, West Virginia

SINGING MALE BIRD CENSUS - 1953 FORAY

YOUNG SPRUCE FOREST

Location: On top of Gaudineer Knob, elevation 4440 feet, Shaver's Mountain, Monongahela National Forest on boundary between Pocahontas and Randolph Counties, West Virginia. Size: 15 acres (rectangular, 110 yards by 660 yards). Vegetation: Essentially same as 1947 and 1948 except for additional growth of spruce and gradual disappearance of such undergrowth as laurel (Kalmia latifolia) and rhododendron (Rhododendrom maximum). Coverage: June 10, late p.m.; June 11, 12, 14, and 17, early a.m. and late p.m. Total hours of census, 19.

CENSUS

Species	Singing Males			Males Per 100 Acres		
	1947	1948	1953	1947	1948	1953
Magnolia Warbler	15.0	19.0	19.0	100.0	127.3	127.3
Junco	8.0	10.0	8.0	53.3	67.0	53.3
Olive-backed Thrush	6.0	2.5	6.5	40.0	16.8	43.5
Robin	2.0	4.5	4.5	13.3	34.1	24.1
Eastern Towhee	5.0	5.5	4.0	33.3	36.8	26.8
Northern Waterthrush	-	-	3.0	-	-	20.1
Winter Wren	2.0	2.0	2.0	13.3	13.3	13.3
Black-capped Chickadee	0.5	1.0	2.0	3.3	6.7	13.3
Hermit Thrush	0.5	/	1.5	3.3	/	10.0
Veery	0.5	/	1.5	3.3	/	10.0
Purple Finch	1.0	1.0	1.0	6.7	6.7	6.7
Golden-crowned Kinglet	-	-	1.0	-	-	6.7

Canada Warbler	-	0.5	1.0	-	3.3	6.7
Black-throated Blue Warbler	/	3.5	.5	/	23.4	3.3
Chestnut-sided Warbler	1.0	0.5	/	6.7	3.3	/
Cedar Waxwing	/	1.0	/	/	6.7	/
Red Crossbill	-	-	/	-	-	/
Pine Siskin	-	-	/	-	-	/
Tufted Titmouse	-	-	/	-	-	/
Blackburnian Warbler	-	0.5	-	-	3.3	-
Black-throated Green Warbler	0.5	/	-	3.3	/	-
Rose-breasted Grosbeak	/	/	-	/	/	-
American Goldfinch	/	/	-	/	/	-
Red-breasted Nuthatch	-	/	-	-	/	-
Hairy Woodpecker	-	/	-	-	/	-
Olive-sided Flycatcher	-	/	-	-	/	-
Scarlet Tanager	/	-	-	/	-	-
Common Nighthawk	/	-	-	/	-	-
Pileated Woodpecker	/	-	-	/	-	-

Totals	1947	1948	1953
No. Species	19	21	19
No. Territorial Males	42	51.5	55.5
Territorial Males Per 100 Acres	281	345	372

Remarks: The remarkably uniform population of Magnolia Warblers in 1948 and 1953 is even more interesting when territories of the individual males are compared. There is little difference in arrangement of the closely packed territories. The sudden invasion of Northern Waterthrushes on a mountain top is surprising. The increase in thrush populations is general throughout the high mountain area this summer.

The Brooks Bird Club (Reported by W. R. DeGarmo, Beverly, W. Va.)

YOUNG DECIDUOUS FOREST

Location: Monongahela National Forest top of Shaver's Mountain near head of Glade Run, Randolph County, W. Va. - about 1.5 miles north of Gaudineer Knob at an elevation of 4,100 to 4,200 feet. Size: 15 acres (rectangular 110 yards by 660 yards). Description: Very much as described in 1948 except for an additional five years of growth. Canopy more completely closed and less undergrowth in portions of census strip, particularly Allegheny blackberry (Rubus allegheniensis). Coverage: June 12 to 20, 1953, early a.m. and late p.m. Total hours, 20.

CENSUS

Species	Singing Males			Males Per 100 Acres		
	1947	1948	1953	1947	1948	1953
Chestnut-sided Warbler	4.0	5.0	5.0	26.7	33.5	33.5
Junco	2.0	2.0	5.0	13.4	13.4	33.5
Veery	5.0	7.5	4.0	33.3	50.2	26.8
Black-throated Blue Warbler	2.0	3.5	4.0	13.4	23.4	26.8
Rose-breasted Grosbeak	1.0	/	3.0	6.7	/	20.1
Black-capped Chickadee	1.0	1.0	3.0	6.7	6.7	20.1
Black-throated Green Warbler	1.0	3.0	1.5	6.7	20.1	10.0
Eastern Towhee	1.0	1.5	1.5	6.7	10.0	10.0
Mourning Warbler	2.5	2.5	1.0	16.7	16.7	6.7
Red-eyed Vireo	3.0	5.0	1.0	20.1	33.5	6.7

Ovenbird	2.0	2.0	1.0	13.4	13.4	6.7
Scarlet Tanger	-	1.0	1.0	-	6.7	6.7
Robin	0.5	0.5	0.5	3.3	3.3	3.3
Ruffed Grouse	/	-	/	/	-	/
Bluejay	/	0.5	/	/	3.3	/
Magnolia Warbler	1.5	1.0	/	10.0	6.7	/
Wood Thrush	1.0	1.5	-	6.7	10.0	-
Canada Warbler	-	1.0	-	-	6.7	-
Hairy Woodpecker	0.5	0.5	-	3.3	3.3	-
Olive-backed Thrush	0.5	/	/	/	-	/
Hermit Thrush	/	-	/	/	-	/

Visitors: Chimney Swift, Red-shouldered Hawk, Red-breasted Nuthatch.

Totals:	1947	1948	1953
No. Species	19	19	21
No. Territorial Males	28.5	39.0	31.5
Territorial Males Per 100 Acres	191 /	261 /	211 /

The Brooks Bird Club (Reported by W. R. DeGarmo, Beverly, W. Va.)

VIRGIN SPRUCE - NORTHERN HARDWOOD FOREST

Location: Monongahela National Forest, at head of Glade Run, a tributary of Shaver's Fork of Cheat River, on north slopes of Gaudineer Knob, Shaver's Mountain in Randolph County near Pocahontas County line, West Virginia. Elevation: 4000-4100 feet. Size: 24 acres (one block 825 feet by 990 feet with one projection 330 feet by 660 feet). Description: About same as described in 1948 coverage (Audubon Field Notes Vol. 2 No. 6, Nov. 1948) except for removal of scattered trees from one portion. Canopy and vegetation show little change except for an invasion of one or two small patches of Allegheny blackberry(Rubus allegheniensis). Portion of area most heavily disturbed was omitted from the census area. Coverage: June 14 - 20. Daily coverage by various members of the Brooks Bird Club. Mostly early a.m. or late p.m. One intensive period of coverage by 12 workers stationed in each 2.5 acre block June 20, 4:45 - 7:30 a.m. Total hours of actual census, 80.

CENSUS

Species	Singing Males 1947*	1948*	1953	Males Per 100 Acres 1947	1948	1953
Blackburnian Warbler	17.0	20.5	16.0	54.4	65.6	64.0
Magnolia Warbler	14.0	16.5	10.5	44.8	52.8	42.0
Junco	6.5	7.0	9.0	20.8	22.4	36.0
Canada Warbler	5.0	7.5	8.5	16.0	24.0	34.0
Black-throated Blue Warbler	5.0	8.0	4.5	16.0	25.6	18.0
Robin	1.0	2.0	4.5	3.2	6.4	18.0
Golden-crowned Kinglet	10.0	7.0	4.0	32.0	22.4	16.0
Brown Creeper	2.0	2.0	3.0	6.4	6.4	12.0
Rose-breasted Grosbeak	1.0	1.0	3.0	3.2	3.2	12.0

Red-breasted Nuthatch	2.0	5.0	2.5	6.4	16.0	10.0
Scarlet Tanager	2.0	3.0	2.5	6.4	9.6	10.0
Olive-backed Thrush	4.0	2.0	2.5	12.8	6.4	10.0
Winter Wren	1.0	6.0	2.0	3.2	19.2	8.0
Black-throated Green Warbler	9.5	6.0	2.0	30.4	19.2	8.0
Blue-headed Vireo	8.0	6.0	2.0	25.6	19.2	8.0
Black-capped Chickadee	0.5	2.0	2.0	1.6	6.4	8.0
Ovenbird	1.0	1.5	1.5	3.2	4.8	6.0
Veery	2.0	-	1.5	6.4	-	6.0
Purple Finch	1.0	3.5	1.0	3.2	11.2	4.0
Hairy Woodpecker	1.0	3.0	1.0	3.2	9.6	4.0
White-breasted Nuthatch	-	2.0	1.0	-	6.4	4.0
Cedar Waxwing	-	2.0	1.0	-	6.4	4.0
Wood Thrush	1.0	2.0	1.0	3.2	6.4	4.0
Bluejay	-	1.0	1.0	-	3.2	4.0
Wood Pewee	-	1.0	1.0	-	3.2	4.0
Red-eyed Vireo	3.0	0.5	1.0	9.6	1.6	4.0
Hermit Thrush	1.0	-	1.0	3.2	-	4.0
Mourning Warbler	-	-	1.0	-	-	4.0
Worm-eating Warbler	-	-	1.0	-	-	4.0
Yellow-shafted Flicker	-	-	.5	-	-	2.0
Parula Warbler	1.0	-	/	3.2	-	/
Tufted Titmouse	-	-	/	-	-	/
Red-shouldered Hawk	/	-	/	/	-	/
Ruffed Grouse	/	-	/	/	-	/
Red Crossbill	-	-	/	-	-	/
Black and White Warbler	1.0	1.0	-	3.2	3.2	-
Yellow-bellied Sapsucker	-	1.0	-	-	3.2	-
Pileated Woodpecker	/	1.0	-	/	3.2	-
Barred Owl	-	/	-	-	/	-
Raven	-	-	/	-	-	/

Total:	1947	1948	1953
No. Species	28	29	36
No. Territorial Males	100.5 (31 acres)	119.0 (31 acres)	93.0
Territorial Males Per 100 Acres	322	381	372

Remarks: All species of thrushes appear high in Alleghanies this summer, hence the generally higher population figures for 1953. Canada and Mourning Warblers generally confined to patches of blackberry growing under canopy. The Worm-eating Warbler was heard at the lower edge of census block in a steep ravine. Sang actually for several minutes early on June 15, heard only briefly on two other occasions. Tufted Titmice, Parula Warblers and Black-capped Chickadees wandering through census area.

The Brooks Bird Club (Reported by W. R. DeGarmo, Beverly, W. Va.)

* Size of area,, 1947 and 1948, 31 acres.

MATURE DECIDUOUS
(Northern Hardwoods)

Location: Burner Mountain, 7 miles north of Durbin on Monongahela National Forest, Pocahontas County, West Virginia. Elevation 4,000 feet. Size: 15 acres (rectangular, 110 yards by 660 yards). Vegetation: Practically unchanged from 1948. Coverage: June 14 to June 19, early a.m. and p.m. Total hours 48½.

CENSUS

Species	Singing Males 1948	Singing Males 1953	Males Per 100 Acres 1948	Males Per 100 Acres 1953
Black-throated Green Warbler	14.0	15.0	93.8	100.5
Red-eyed Vireo	9.0	14.0	60.3	93.8
Ovenbird	10.0	14.0	67.0	93.8
Veery	5.0	3.0	33.5	20.1
Junco	4.0	3.0	26.8	20.1
Scarlet Tanager	2.0	3.0	13.4	20.1
Blue-headed Vireo	3.5	2.5	23.4	16.8
Wood Pewee	1.5	2.0	10.0	13.4
Black-throated Blue Warbler	1.0	2.0	6.7	13.4
Hairy Woodpecker	1.0	1.5	6.7	10.0
Black and White Warbler	2.0	1.0	13.4	6.7
Wood Thrush	/	1.0	/	6.7
Blackburnian Warbler	-	1.0	-	6.7
Downy Woodpecker	-	.5	-	3.3
Robin	-	.5	-	3.3
Whitebreasted Nuthatch	1.0	/	6.7	/
Chestnut-sided Warbler	-	/	-	/
Wild Turkey	-	/	-	/
Pileated Woodpecker	-	/	-	/
Bluejay	-	/	-	/
Flicker	-	/	-	/
Ruffed Grouse	-	/	-	/
Winter Wren	/	-	/	-

Totals:	1948	1953
No. Species	14	22
No. Territorial Males	54.0	64
Territorial Males Per 100 Acres	362	429

The Brooks Bird Club (Reported by W. R. DeGarmo, Beverly, West Virginia)

FIELD NOTES

1953 THE AUTUMN SEASON July 1 to September 30

The early part of the period was hot and dry. Temperatures in Ju y and August were above normal but not as excessively so as in 1952. A cold spell occurred in late August but early September broke many records for high temperatures. Late September was slightly above normal after a cold snap about September 12. Most regions had not had a killing froat by the end of the period. Little rainfall occurred after the middle of June and drought was unrelieved at the end of the period.

The ornithological season was in general uneventful, with many observers apparently relatively inactive. With the exception of some of the rarer shorebirds no great rareties were reported.

Pied-billed Grebe: Nested at Youngstown, O.(V. McLaughlin) but apparently not at Leetown (C.Miller).

Great-blue Heron: Rather common at Wheeling (C. Conrad) and at Leetown and Altona Marsh in Jefferson County (Miller).

American Egret: McLaughlin reported that the late Summer flight at Youngstown, O. was below normal. Miller recorded a total of 56 birds from July 19 to September 30 in the Eastern Panhandle, with a flock of 15 seen on August 20. E. Chandler and J. Laitsch reported a pair in East Liverpool, O. for two weeks in July. W. Davis and G. Hall saw one at Moorefield on July 26.

Snowy Egret: One at Mosquito Lake, Ohio on July 26 (H. Heimerdinger).

Little Blue Heron: McLaughlin reported one from the Youngstown, Ohio region.

Black-crowned Night Heron: Miller observed adults accompanied by young birds at Leetown on August 23. More evidence for the as yet undiscovered rookery in that region.

Canada Goose: Eleven were seen near Ridgeway just over the Virginia line on September 25, 26, 27 by Miller.

Ducks: Apparently the breeding season was successful at Youngstown, Ohio. (McLaughlin) and at Leetown (Miller), although Heimerdinger reports poor success in late nesting attempts at Mosquito Lake, Ohio.due to the rapidly falling water level. McLaughlin reports possibly 10,000 birds on two of the Youngstown lakes at the end of the period and Miller estimated 2-300 on the ponds at the Leetown Hatchery. The majority are black ducks and mallards. The first migrants appeared at Leetown on September 10 and Heimerdinger reports that all the dabbling ducks were present at Evans Lake, Ohio on September 30.

Gadwall: One at Mosquito Lake, August 23(Heimerdinger) Early for a migrant.

Baldpate: Arrived in the Eastern Panhand e on September 26 (Miller).

Green-winged Teal: Several appeared, as they do every year, on about August 1 in the Youngstown, O. region, where they are not known to nest (McLaughlin).

Wood Duck: A successful breeding season in the Eastern Panhandle (Miller).

Hawks: The weekend picked for the cooperative hawk count turned out to have very poor weather conditions, and the counts were very low. Observers in the Eastern part of the State were nearly shut out, with most counts running below 100. 280 were seen at the Bear Rocks station on Allegheny Front Mountain on September 19 and no flight was in evidence there on September 26-27. Accipitersand falcons were noticeably absent. McLaughlin reported a flight of 75 broad-wings over Canfield, O. on September 8. Heavy autumn flights have not been known for this region before.

Bald Eagle: The nesting pair at Meander Lake, O. raised one young this year. There were several others reported from the Youngstown, O. region (McLaughlin).

Duck Hawk: Three records in the Youngstown, O. region (Heimerdinger).

Pigeon Hawk: Heimerdinger reported one at Mosquito Lake, O. on August 23. None were seen on the Eastern West Virginia Hawk counts.

Ruffed Grouse: Many reports of continued high populations in the West Virginia mountain regions.

King Rail: Miller saw two different broods of young at the Altona Marsh in Jefferson County in mid-August.

Florida Gallinule: Four or five broods were raised at the Leetown Hatchery (Miller).

Coot: Miller feels that this bird too nested at Leetown.

Shorebirds: The fall flight was very poor at Morgantown (Hall) and at Wheeling (Conrad), and Miller reported a below average flight for the Eastern panhandle. Some difference of opinion was manifest in the Youngstown, O. region where McLaughlin termed the flight "mediocre" and Heimerdinger called it "Better than average." Neither reported on relative numbers but several rareties were reported. On September 12, following the passage of a cold front, Heimerdinger listed 22 species at Mosquito Lake, O. Only the high points are covered here.

Golden Plover: McLaughlin reported more than usual on the Youngstown, O. lakes on September 7.

Wilson's Snipe: Arrived at Leetown on September 28 (Miller).

Hudsonian Curlew: Heimerdinger saw one at Mosquito Lake, O. on September 12.

Willet: Seen near Cleveland, O. in early September (Hille fide Heimerdinger.)

White-rumped Sandpiper: Two at Mosquito Lake, O. on September 12 (Heimerdinger)

Least Sandpiper: Low numbers at Barnesville, O. (Mrs. H. Chapman) and at Morgantown (Hall).

Dowitcher: Fewer than usual at Seneca Lake, O. (Chapman and Cain).

Stilt Sandpiper: Arrived on August 10 at Mosquito Lake, O. (Heimerdinger) and in good numbers thereafter (McLaughlin).

Buff-breasted Sandpiper: Two were seen at Mosquito Lake, O. on September 12 (Heimerdinger).

Hudsonian Godwit (Heimerdinger found one at Mosquito Lake, O. on September 12.

Sanderling: A very early record at Mosquito Lake, O. on August 2 (Heimerdinger).

Avocet: The record of the Summer. Mrs. H. Chapman and Mrs. D. Cain saw three at Seneca Lake, O. on September 23 and four were there on September 27. There are only about four or five previous Ohio records.

Wilson's Phalarope: Heimerdinger found one at Mosquito Lake, O. on July 12.

Northern Phalarope: One at Mosquito Lake, O. on September 12 (Heimerdinger).

Mourning Dove: Nested for the first time in several years at Willoughby O. (L. Barbour). Plentiful in the Eastern Panhandle (Miller) but in very low numbers at Morgantown (Hall).

Yellow-billed Cuckoo: An interesting contrast. Miller found them to be very common in the Eastern Panhandle and Conrad reports them as unusually common in Wheeling. They were scarce in Morgantown (Hall), in Youngstown, O. (McLaughlin) and at Chester (Chandler).

Nighthawk: Conrad reported the biggest flight in years at Wheeling where they arrived on August 21 (on time) and stayed late. Mrs. W. W. Dickinson reported the largest number seen in years at Bluefield.

Red-bellied Woodpecker: Very scarce in the Eastern Panhandle. (Miller).

Phoebe: Failed to nest at Conrad's home in Wheeling for the first time in twelve years.

Barn Swallow: Mrs. Dickinson reported flocks of 1000 and 250 at Elkwater in the upper Tygart Valley on August 27.

Purple Martin: Hall and Davis saw a flock of 300 at Masontown on July 26. On September 22, Davis collected a nearly complete albino specimen at Morgantown. Last seen at Bluefield on September 4 (Dickinson).

Red-breasted Nuthatch: Arrived in the Eastern Panhandle on August 8 and became rather common thereafter (Miller).

Carolina Wren: Late summer singing commenced on August 21 at Wheeling (Conrad).

Long-billed Marsh Wren: Miller saw two broods of young at Altona Marsh on August 16. To the writer's knowledge this is the first positive breeding record for the State.

Wood Thrush: Increased breeding population at Willoughby, O. (Barbour). Last date at Bluefield, September 18 (Dickinson).

Olive-backed Thrush: Earliest record at Bluefield on September 14 (Dickinson).

American Pipit: Seen at Mosquito Lake, O. on September 12 (Heimerdinger).

White-eyed Vireo: This bird is definitely extending its range in Northern West Virginia. It was found again this year at Warwood where it remained until September 24 (Conrad). Chandler found it in Hancock County in late June. It has not been known previously from there. The last date for Bluefield was September 14, the latest date on record (Dickinson).

Warbling Vireo: More numerous at Chester than in the last ten years (Chandler). In song at Wheeling from August 7 to September 9 (Conrad).

Warblers: McLaughlin reports that the migration began about August 20 in the Youngstown, O. region and the first migrants were seen at Willoughby, O. on August 23 with a big wave there on September 20 (Barbour). In Bluefield they arrived on September 5 after a two day rain (Dickinson). Conrad reports a good flight at Wheeling.

Black & White Warbler: Last seen at Bluefield on September 30, the latest date on record (Dickinson).

Tennessee Warbler: Common at Willoughby, O. (Barbour) and recorded September 6-13 at Bluefield (Dickinson).

Black-throated Blue Warbler: Among the most numerous at Willoughby, O. (Barbour). Last seen on September 28 at Bluefield, the latest date on record (Dickinson).

Ovenbird: Last seen in Bluefield on September 29, latest date on record (Dickinson).

Wilson's Warbler: Seen at Morgantown on September 13 (Hall).

Bobolink: Not found at the station where they nested in 1952 near Chester (Chandler). Seen in the Eastern Panhandle on August 30 (Miller).

Baltimore Oriole: Barbour reports an increase in the nesting population at Willoughby, O. but Chandler comments on the decrease at Chester. Mrs. Dickinson noted an unusually large number of migrants in Bluefield.

Cardinal: A late brood hatched on September 10 at Inwood (Miller).

Rose-breasted Grosbeak: An increase in breeding population at Willoughby, O. (Barbour).

Fox Sparrow: A very early record at Wheeling on September 2 (Conrad).

Song Sparrow: A late nest with eggs on Labor Day at East Liverpool, O. (Laitsch *fide* Chandler).

Note: Unless otherwise designated all places in the above account are to be understood as referring to the state of West Virginia.

Correction: The records for the White Pelican and Reddish Egret which were given in the Spring Season Field Notes (THE REDSTART, Vol XX pp55) were erroneously given for Linesville, Pa. Mr. J. Mehner informs me that these birds were seen at Presque Isle, Pa. Further details of these records are to be published elsewhere.

George A. Hall
Morgantown, W. Va.

Contributions for the Season October 1 to December 31 are due on January 1.

1953 "Century Day" Reports

by George H. Breiding

Last year's reports included four lists from West Virginia, three from Ohio. This year reports were received from the same points

in West Virginia, but only two from Ohio. A Pennsylvania report this year from the Pymatuning area helped to expand the political boundaries to make the century day compilation one of tri-state coverage.

Date	Locality	Source
May 3	Charleston (Kanawha Co.)	C. O. Handley, Sr.
May 10	Elkins (Tygart Valley from Valley Bend to Elkins; Cheat and Shavers Mts. and Gaudineer Knob).	W. R. DeGarmo
May 3	Huntington	Ralph Edeburn
May 10	Morgantown (Monongalia, Preston Counties)	George A. Hall
May 16	Willoughby, Ohio (North Chagrin Reservation, Black Brooke Marsh and State Park, Sherwin Estate)	Llewellen Barbour
May 10	Youngstown, Ohio (Trumbull, Mahoning and Columbiana counties, from north end of Mosquito Lake south to almost Wellsville).	Howard Heimerdinger
May 16	Pymatuning, Penna. (vicinity of Linesville, Hartstown)	E. C. Mart M. B. Skaggs

Number of Observers and Weather Data

Area	No. of Observers	Time in Field	Weather
Charleston	28	--	Partly cloudy to clear; light breeze.
Elkins	1	4:00 a.m. to 7 p.m.	46° at 4 a.m. to a high of 80°; wind NNW calm to 15 mph; clear until evening when light showers occurred on the mountain ridges.

Area	No. of Observers	Time in Field	Weather
Huntington	--	--	Clear, warm, calm; 60° - 80°
Morgantown	6	3:45 a.m. to 7 p.m.	Clear, cloudless; 50°, 5 a.m., 80° 4 p.m.
Wheeling	32	6 a.m. - 6 p.m.DST	Precipitation 21"; with hard showers; cloudy, overcast most of day. 57° to 64°
Willoughby	1	7 a.m. - 4:30 p.m.	Cloudy, overcast, occasionally clearing a.m., rain p.m.
Youngstown	--	--	--
Pymatuning	2	5 a.m. - 5 p.m.	Cloudy with light showers during day; steady rain 5:00 p.m.

Comments or Unusual Observations

Charleston

Canvasback, gray-cheeked thrush, lark and tree sparrows, little blue heron and black-crowned night heron were among new additions over last year's list; several common species not recorded last year were "picked up" this year. Again the least flycatcher was absent from the list.

Elkins

Highlights of the day, two blue geese and super-abundance of pine siskins. Of the latter, flocks ranged from several birds to 200-300 with a tally of at least 1500; also an unusually large number of bobwhites observed; chickadees scarce in the Tygart Valley.

Huntington

Details not submitted.

Morgantown

Several species including shore and water birds that were here on May 3 had moved on. Migrant warblers seen in very small numbers and nothing like a wave of migrants developed. In general, no outstanding records, but pine siskins have been present since February and still in the area (may 17). Orchard oriole uncommon; summer tanager has been a rare bird but all three parties observed it in widely separated localities. The Shrike is considered a rare bird here.

Species observed in the region on May 9 but not on century day; pipit, blue-winged and black-poll warblers and Henslow's sparrow.

Wheeling

Vesper sparrow apparently scarce; thrushes low, veery not recorded; tree swallow new to list as was short-billed marsh wren; red-breasted and American mergansers were "good" finds for the day.

Willoughby

Warblers seemed to be at about peak of migration; migrant shore birds scarce. Nesting activity very conspicuous among resident birds with several young robins seen; spotted sandpipers most numerous among shorebirds, killdeers next. Six bobwhites observed, an indication of a comeback in northeastern Ohio. Boblinks not found at sites where it occurred in other years. The observance of the American egret was possibly the first for the area.

Youngstown

About the usual number of species were recorded with many of those just individual birds. Some of the more common birds missing. Several shorebirds, ducks and warblers "did not show up."

Pymatuning

No details.

CENTURY DAY LIST - 1953
LOCALITY AND DATE

SPECIES	5/3	5/10	5/3	5/10	5/17	5/16	5/10	5/16
	West Virginia					Ohio		Pa.
	Chas.	Elk.	Hunt.	Mgtn.	Whg.	Willob.	Ygtn.	Pyma.
Common Loon	-	-	-	-	-	-	x	-
Horned Grebe	-	-	x	-	-	-	x	-
Pied-billed G.	-	x	x	x	-	-	x	-
Gr. Blue Heron	-	-	x	-	-	x	x	x
Amer. Egret	-	-	-	-	-	x	-	-
Little Blue H.	x	-	-	-	-	-	-	-
Green Heron	x	x	x	x	x	x	x	x
B. C. Night H.	x	-	-	x	-	-	-	-
Am. Bittern	-	-	x	-	-	-	x	x
Least Bittern	-	-	-	-	-	x	x	-
Canada Goose	-	-	-	-	-	-	-	x
Blue Goose	-	x	-	-	-	-	-	-
Mallard	-	-	x	-	x	x	x	x
Black Duck	-	-	x	-	x	-	x	x
Gadwall	-	-	x	-	-	-	x	-
Baldpate	x	-	x	-	-	-	x	x
Pintail	-	-	-	-	x	-	x	-

SPECIES	5/3 Chas.	5/10 W. Va. Elk.	5/3 W. Va. Hunt.	5/10 W. Va. Mgtn.	5/17 Whg.	5/16 Ohio Willob.	5/10 Ohio Ygtn.	5/16 Pa. Pyma.
Bl.-winged Teal	x	x	x	-	-	x	x	x
Wood Duck	x	x	x	-	-	x	x	x
Redhead	-	-	-	-	-	-	-	x
Ring-necked D.	-	-	x	-	-	x	x	x
Canvas-back	x	-	-	-	-	-	-	-
Scaup	x	-	x	x	-	x	x	-
Bufflehead	x	-	-	-	-	-	-	-
Ruddy Duck	-	-	x	-	x	x	x	x
Hooded Merg.	-	-	-	-	-	-	x	-
Amer. Merg.	-	-	x	-	x	-	-	-
Red.-br. Merg.	-	-	x	-	-	-	-	-
Turkey Vulture	x	-	x	x	x	-	x	x
Sh.-shinned H.	-	x	-	x	-	x	x	-
Cooper's Hawk	-	-	x	-	x	x	x	-
Red-tailed H.	-	-	x	-	x	-	-	x
Red-sh. Hawk	-	x	x	-	x	-	x	-
Br-winged H.	x	-	x	x	x	-	x	-
Bald Eagle	-	-	-	-	-	-	x	-
Marsh Hawk	-	-	x	-	-	-	x	-
Osprey	-	-	-	-	-	x	-	-
Sparrow Hawk	x	x	x	x	x	x	x	-
Ruffed Grouse	x	x	x	x	x	-	x	x
Bobwhite	x	x	x	x	x	x	x	-
R. N. Pheasant	-	-	-	x	x	-	x	x
King Rail	-	-	x	-	-	-	-	-

SPECIES	5/3 Chas.	5/10 W. Va. Elk.	5/3 W. Va. Hunt.	5/10 W. Va. Mgtn.	5/17 Whg.	5/16 Ohio Willcb.	5/10 Ohio Ygtn.	5/16 Pa. Pyma.
Va. Rail	-	-	x	-	-	x	x	-
Sora	-	-	x	x	-	-	x	-
Fla. Gallinule	-	-	-	-	-	-	x	x
Coot	-	-	x	-	x	x	x	x
Semip. Plover	x	-	x	-	-	-	-	-
Killdeer	x	x	x	x	x	x	x	x
Bl-bellied P.	-	-	-	-	-	-	x	-
Woodcock	-	x	x	x	-	-	x	-
Wilson Snipe	x	x	x	-	-	-	x	x
Upland Plover	-	-	-	-	-	-	x	x
Spotted Sand.	x	x	x	x	x	x	x	x
Solitary S.	x	x	x	x	-	-	x	-
Gr. Yellowlegs	x	x	-	-	-	-	x	-
Ls. Yellowlegs	x	-	x	-	x	-	x	-
Knot	-	-	-	-	-	-	x	-
Pectoral S.	-	-	x	-	-	-	x	-
Least Sandp.	x	x	x	-	x	x	x	-
Semipalmated S.	x	-	-	-	-	-	x	-
Herring Gull	-	-	-	-	x	x	x	-
Ring-billed G.	-	-	-	-	x	x	x	x
Bonaparte's G.	-	-	-	-	-	-	x	x
Common Tern	-	-	-	-	-	-	x	-
Caspian Tern	-	-	-	-	-	-	x	-
Black Tern	-	-	-	-	-	-	x	x
Rock Dove	x	-	-	-	x	x	-	-
Mourning Dove	x	x	x	x	x	-	x	x

	5/3	5/10	5/3	5/10	5/17	5/16	5/10	5/16
	West Virginia					Ohio		Pa.
SPECIES	Chas.	Elk.	Hunt.	Mgtn.	Whg.	Willob.	Ygtn.	Fyma.
Y. B. Cuckoo	x	-	x	x	x	-	x	-
B. B. Cuckoo	x	-	-	-	-	-	x	-
Screech Owl	-	-	x	-	x	-	x	-
Gr. Horned Owl	-	-	-	-	x	-	x	-
Barred Owl	-	x	x	-	-	-	x	-
*Whip-poor-will	x	x	x	x	-	-	-	-
Nighthawk	-	-	x	-	-	x	x	x
Chimney Swift	x	x	x	x	x	x	x	x
R. T. Hummingbird	x	-	x	x	x	x	x	-
Kingfisher	x	x	-	x	x	x	x	-
Flicker	x	x	x	x	x	x	x	x
Pileated Wpk.	x	x	x	x	x	x	x	-
Red-bellied Wpk.	x	-	x	x	x	x	x	-
Red-headed Wpk.	x	-	x	-	-	x	x	x
Sapsucker	-	-	x	x	x	-	-	-
Hairy Wpk.	x	x	x	x	x	x	x	-
Downy Wpk.	x	x	x	x	x	x	x	x
Kingbird	x	x	x	x	x	x	x	x
Crested Flyc.	x	x	x	x	x	x	x	x
Phoebe	x	x	x	x	x	x	x	x
Acadian Flyc.	x	-	x	x	x	-	x	-
Alder Flyc.	-	-	-	x	-	-	x	x
Least Flyc.	-	x	x	x	x	x	x	x
Wood Pewee	x	x	x	x	x	x	x	x
Horned Lark	x	-	x	x	x	-	x	x
Tree Swallow	-	-	x	x	x	x	x	x

	5/3	5/10	5/3	5/10	5/17	5/16	5/10	5/16
	West Virginia					Ohio		Pa.
SPECIES	Chas.	Elk.	Hunt.	Mgtn.	Whg.	Willob.	Ygtn.	Pyma.
Bank Swallow	x	=	=	=	x	x	x	x
R. W. Swallow	x	x	x	x	x	x	x	x
Barn Swallow	x	x	x	x	x	x	x	x
Cliff Swallow	-	x	x	x	x	-	-	x
Purple Martin	x	x	x	x	x	x	x	x
Blue Jay	x	x	x	x	-	x	x	x
Crow	x	x	x	x	x	x	x	x
B. C. Chickadee	-	x	-	x	-	x	x	x?
Car. Chickadee	x	x	x	x	x	-	x	-
Tufted Titmouse	x	x	x	x	x	x	x	x
W. B. Nuthatch	x	x	x	x	x	x	x	x
R. B. Nuthatch	-	x	-	x	-	-	x	-
Br. Creeper	-	x	x	-	-	-	x	-
House Wren	x	x	x	x	x	x	x	x
Winter Wren	x	x	x	x	-	-	x	-
Bewick's Wren	-	x	x	x	x	-	-	-
Carolina Wren	x	x	x	x	x	-	x	-
L. B. Marsh Wren	-	-	x	-	-	x	x	-
Sh-b. Marsh W.	-	-	-	-	x	-	x	-
Mockinbird	x	-	x	x	-	-	-	-
Catbird	x	x	x	x	x	x	x	x
Brown Thrasher	x	x	x	x	x	x	x	x
Robin	x	x	x	x	x	x	x	x
Wood Thrush	x	x	x	x	x	x	x	-
Hermit Thrush	x	x	-	-	-	-	x	x
Olive-bk. Th.	x	x	x	x	x	x	x	x

SPECIES	5/3 Chas.	5/10 W. Va. Elk.	5/3 W. Va. Hunt.	5/10 W. Va. Mgtn.	5/17 W. Va. Whg.	5/16 Ohio Willob.	5/10 Ohio Ygtn.	5/16 Pa. Pyma.
Gray-chk. Th.	x	-	-	-	-	-	x	-
Veery	-	x	-	x	-	x	x	x
Bluebird	x	x	x	x	x	x	x	x
B. G. Gnatcatcher	x	x	x	x	x	-	x	-
G. C. Kinglet	-	x	-	-	-	-	-	-
R. C. Kinglet	x	-	x	x	-	-	x	-
Pipit	-	-	x	-	-	x	x	-
Cedar Waxwing	x	x	x	x	x	-	x	x
Migrant Shrike	-	-	-	x	-	-	-	-
Starling	x	x	x	x	x	x	x	x
Wh-eyed Vireo	x	x	x	x	x	-	-	-
Y-thr. Vireo	x	x	x	x	x	-	x	x
Blue-headed V.	x	x	-	x	-	-	x	-
Red-eyed Vireo	x	x	x	x	x	x	x	x
Philadelphia V.	-	-	-	-	-	-	x	-
Warbling Viero	x	x	x	x	x	x	x	x
Bl. & White W.	x	x	x	x	x	x	x	-
Prothonotary W.	-	-	-	-	-	-	x	-
Swainson's W.	x	-	x	-	-	-	-	-
Worm-eating W.	x	x	x	x	-	-	x	-
Golden-Wg. W.	-	x	x	x	-	-	x	-
Blue-winged W.	x	-	x	-	x	x	x	x
Tennessee W.	x	x	x	x	x	x	x	x
Nashville W.	x	x	x	x	x	x	x	-
Parula W.	x	x	-	x	x	-	x	-
Yellow W.	x	x	x	x	x	x	x	x
Magnolia W.	x	x	x	x	-	x	x	x

	5/3	5/10	5/3	5/10	5/17	5/16	5/10	5/16
	West Virginia					Ohio		Pa.
SPECIES	Chas.	Elk.	Hunt.	Mgtn.	Whg.	Willob.	Ygtn.	Pyma
Cape May W.	-	-	x	x	x	x	x	x
Bl-th-Blue W.	x	x	x	x	x	x	x	x
Myrtle Warbler	x	x	x	x	x	x	x	x
Bl-th-Green W.	x	x	x	x	x	x	x	x
Cerulean Warbler	x	x	x	x	x	x	x	x
Blackburnian W.	x	x	-	x	x	x	x	x
Chestnut-sided W.	x	x	x	x	x	x	x	-
Bay-breasted W.	x	-	x	x	x	x	-	x
Black-poll W.	-	-	-	-	x	-	-	x
Pine Warbler	x	-	-	-	-	-	-	-
Prairie Warbler	x	x	x	x	-	-	-	-
Palm Warbler	x	-	x	x	-	x	x	-
Ovenbird	x	x	x	x	x	x	x	x
Northern and Grinnell's Waterthrush	x x	x	x	-	-	x	x	x
La. Waterthrush	x	x	x	x	x	-	x	-
Kentucky Warbler	x	x	x	x	x	x	x	-
Connecticut W.	x	-	-	-	-	-	-	-
Mourning Warbler	-	-	-	x	-	-	-	-
Yellowthroat	x	x	x	x	x	x	x	x
Y.B.Chat	x	x	x	x	x	-	x	x
Hooded Warbler	x	x	x	x	x	x	x	-
Wilson's Warbler	x	-	x	-	-	-	-	-
Canada Warbler	x	x	-	x	-	x	x	-
Redstart	x	x	x	x	x	x	x	x
English Sparrow	x	x	x	x	x	x	x	x
Bobolink	x	x	x	x	-	-	x	x

	5/3	5/10	5/3	5/10	5/17	5/16	5/10	5/16
	West Virginia					Ohio		Pa.
SPECIES	Chas.	Elk.	Hunt.	Mgtn.	Whg.	Willob.	Ygtn.	Pyma.
E. Meadowlark	x	x	x	x	x	x	x	x
Redwing	x	x	x	x	x	x	x	x
Orchard Oriole	x	x	x	x	x	x	x	-
Baltimore Oriole	x	x	x	x	x	x	x	x
Rusty Blackbird	x	-	-	-	-	-	x	-
Grackle	x	x	x	x	x	x	x	x
Cowbird	x	x	x	x	x	x	x	x
Scarlet Tanager	x	x	x	x	x	x	x	x
Summer Tanager	x	-	x	x	-	-	-	-
Cardinal	x	x	x	x	x	x	x	x
Rose-br. Grosbeak	x	x	x	x	x	x	x	x
Indigo Bunting	x	x	x	x	x	x	x	x
Dickcissel	-	-	x	-	-	-	-	-
Purple Finch	x	x	x	x	x	x	x	-
Pine Siskin	x	x	-	x	-	-	-	-
Goldfinch	x	x	x	x	x	x	x	x
Towhee	x	x	x	x	x	x	x	x
Savannah Sparrow	x	x	x	x	x	x	x	x
Grasshopper Sp.	x	x	x	x	x	-	x	x
Henslow's Sparrow	-	-	x	-	-	-	x	x
Vesper Sparrow	x	x	x	x	x	-	x	x
Lark Sparrow	x	-	-	-	-	-	-	-
Chipping Sparrow	x	x	x	x	x	x	x	x
Junco	x	x	-	-	x	-	x	-
Tree Sparrow	x	-	-	-	-	-	x	-

SPECIES	5/3 Chas.	5/10 Elk.	5/3 Hunt.	5/10 Mgtn.	5/17 Whg.	5/16 Willob.	5/10 Ygtn.	5/16 Pa. Pyma.
	West Virginia					Ohio		
Field Sparrow	x	x	x	x	x	x	x	x
White-crowned Sp.	x	x	x	x	-	x	x	x
White-throated Sp.	x	x	x	x	-	x	x	-
Lincoln's Sparrow	-	-	x	-	-	-	-	-
Fox Sparrow	x	-	-	-	-	x	-	-
Swamp Sparrow	x	x	x	x	-	x	x	x
Song Sparrow	x	x	x	x	x	x	x	x
Total, 1953	133	114	147	123	113	105	168	101
Total, 1952	107	107	153	107	117	82**	160	-

* Recorded by Wheeling observers, but outside the territory normally covered by the group.

** Report from northern Ohio, but apparently from a different area than 1952.

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1953 - 54

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(Exchanges)

ALLEGHENY KNAPSACK--Pittsburgh Camp Council, 519 Smithfield St., Pittsburgh 22, Pa.
AUDUBON MAGAZINE--National Audubon Society, 1000 Fifth Ave., New York 28, New York
AUDUBON NEWSLETTER--Audubon Society of New Hampshire, Mrs. Doris Brainard Walpole, N.H.
AUDUBON NEWSLETTER- Audubon Scoiety of Western Pennsylvania, 711 Forbes Street, Pittsburgh 18, Pa.
CALL NOTES - Huntington Bird Club, Marshall College, Huntington, W.Va.
CARNEGIE MAGAZINE - Carnegie Museum, Schenley Park, Pittsburgh 13, Pa.
CASSINIA- Delaware Valley Ornithological Club, 19th & Parkway, Philadelphia 3, Pa.
CLEVELAND BIRD CALENDAR-2712 Euclid Ave., Cleveland 15, Ohio
ECOLOGISTS UNION- American Museum Natural History, Central Park, W. 79th St., New York 24, N.Y.
FLYING FEATHERS - 650 Almyra Ave., Youngstown, Ohio
INDIANA AUDUBON QUARTERLY-Earlham College, Richmond, Indiana
INDIANA AUDUBON YEAR BOOK-3604 N. Temple Ave., Indianapolis 18, Ind.
IOWA BIRD LIFE-Cornell College, Mount Vernon, Iowa
LANCASTER COUNTY BIRD BULLETIN-318 N. President Ave., Lancaster, Pa.
LIBRARY-FISH & WILDLIFE SERVICE-Rm. 2258 A. South Interior Bldg. Washington 25, D.C.
MARYLAND-Natural History Soc. of Maryland, 2101 Bolton St., Baltimore 17, Md.
MIGRANT-Tennessee Ornithological Soc. 838 Gracey Ave., Clarksville, Tenn.
NATURAL HISTORY-American Museum of Natural History-79th St., New York 24, New York
NEBRASKA BIRD REVIEW-University of Nebraska, Lincoln, Neb.
OHIO COUNTY PUBLIC LIBRARY-Wheeling W. Va.
OHIO STATE UNIVERSITY-Columbus, Ohio
PROTHONOTARY-Buffalo Ornithological Society, Kenmore 17, N.Y.
RAVEN-6 White St., Lexington, Va.
RIDGEWOOD AUDUBON SOCIETY-21 South Vandien Ave., Ridgewood, N.J.
READING PUBLIC MUSEUM AND ART GALLERY-Reading, Pa.
SMITHSONIAN INSTITUTE-Washington 25, D. C.
WEST VIRGINIA UNIVERSITY- Morgantown, W. Va.
WILDLIFE REVIEW-Patuxent Research Refuge, Laural, Maryland
WARBLER, KENTUCKY - University of Louisville, Louisville, Ky.
WEST VIRGINIA CONSERVATION, Conservation Commission, Charleston, WVA.
WILSON BULLETIN-Museum of Zoology, Ann Arbor, Michigan
WISCONSIN SOCIETY FOR ORNITHOLOGY-4333 Hillcrest Drive, Madison, Wis.