

# CARLTON COUNTY, MN



Golden-winged Warbler



American Woodcock



Young forest habitat 4 years after timber harvest

**Assessing Avian Response to Young Forest Management:  
Projects Funded Through the Minnesota Outdoor Heritage Fund.**

We are excited to share with you the results of our Golden-winged Warbler, American Woodcock, and songbird surveys.

As you may know, Golden-winged Warbler and American Woodcock populations have been declining for decades, primarily due to habitat loss in the United States. These two bird species (see cover photos) and many other species of birds, mammals, and reptiles rely on young forest habitat during some or all of their life.

We conducted surveys at 6 locations in Carlton County, Minnesota during 2017 and 2018. Point surveys for American Woodcock were conducted in the evenings and were each 8 minutes in duration. Project technicians tallied each singing (“Peenting”) male they detected. Songbird point count surveys were 10-minutes in duration. The songbird survey was followed by an additional 2-minute period in which the technician played a recording of a male Golden-winged Warbler to lure any individuals that were not detected during the survey. This technique is sometimes helpful because male warblers are very territorial and present themselves if they hear a rival male nearby. Summaries for each point location are provided below.

### **pub229**

This point was visited May 30, 2017 & June 6, 2017 to survey for Golden-winged Warblers and other songbirds. No Golden-winged Warblers were detected at those times.

This point was visited on June 20, 2018 to survey for Golden-winged Warblers and other songbirds. No Golden-winged Warblers were detected at those times.

We detected a total of 19 species at this point over the 2 years of surveys. Of the 19 species we detected, 2 are currently considered at-risk species (denoted in the list with an asterisk).

- |                            |                            |
|----------------------------|----------------------------|
| 1. Alder Flycatcher        | 11. Hairy Woodpecker       |
| 2. American Redstart       | 12. Northern Flicker       |
| 3. American Robin          | 13. Ovenbird               |
| 4. Black-and-white Warbler | 14. Red-eyed Vireo         |
| 5. Black-capped Chickadee  | 15. Ruffed Grouse          |
| 6. Blue Jay                | 16. Sedge Wren*            |
| 7. Chestnut-sided Warbler  | 17. Veery*                 |
| 8. Common Raven            | 18. White-throated Sparrow |
| 9. Common Yellowthroat     | 19. Yellow Warbler         |
| 10. Eastern Wood-Pewee     |                            |

### **pub230**

This point was visited on May 30, 2017 and June 6, 2017 to survey for Golden-winged Warblers and other songbirds. No Golden-winged Warblers were detected at those times.

This point was visited on June 1, 2018 and June 20, 2018 to survey for Golden-winged Warblers and other songbirds. A total of 1 Golden-winged Warbler was detected at this point location.

We detected a total of 20 species at this point over the 2 years of surveys. Of the 20 species we detected, 4 are currently considered at-risk species (denoted in the list with an asterisk).

- |                            |                            |
|----------------------------|----------------------------|
| 1. American Crow           | 11. Common Yellowthroat    |
| 2. American Goldfinch      | 12. Golden-winged Warbler* |
| 3. American Redstart       | 13. Northern Flicker       |
| 4. American Robin          | 14. Ovenbird               |
| 5. Black-and-white Warbler | 15. Red-breasted Nuthatch  |
| 6. Black-billed Cuckoo*    | 16. Red-eyed Vireo         |
| 7. Black-capped Chickadee  | 17. Ruffed Grouse          |
| 8. Blue Jay                | 18. Sedge Wren*            |
| 9. Chestnut-sided Warbler  | 19. Veery*                 |
| 10. Common Raven           | 20. White-throated Sparrow |

\*Both pub229 and pub230 were monitored in 2017 *prior* to brush management and in 2018 *after* brush management had been completed. The table below lists the species detected at both points for each year.

pub229_2017 (pre-treatment)	pub230_2017 (pre-treatment)	pub229_2018 (post-treatment)	pub230_2018 (post-treatment)
Alder Flycatcher	American Crow	American Redstart	American Redstart
American Robin	American Goldfinch	Blue Jay	American Robin
Black-and-white Warbler	American Robin	Chestnut-sided Warbler	Blue Jay
Black-capped Chickadee	Black-and-white Warbler	Common Yellowthroat	Common Yellowthroat
Blue Jay	Black-billed Cuckoo	Eastern Wood-Pewee	Golden-winged Warbler
Common Raven	Black-capped Chickadee	Northern Flicker	Northern Flicker
Common Yellowthroat	Blue Jay	Red-eyed Vireo	Red-eyed Vireo
Hairy Woodpecker	Chestnut-sided Warbler	Sedge Wren	Sedge Wren
Ovenbird	Common Raven	White-throated Sparrow	American Crow
Red-eyed Vireo	Common Yellowthroat	Yellow Warbler	Ruffed Grouse
Ruffed Grouse	Ovenbird		
Veery	Red-breasted Nuthatch		
White-throated Sparrow	Red-eyed Vireo		
	Ruffed Grouse		

	Veery		
	White-throated Sparrow		

**pub234**

This point was visited on May 10, 2017 to survey for American Woodcock. We detected a total of 2 American Woodcock at this point location.

This point was visited again on May 30, 2017 and June 21, 2017 to survey for Golden-winged Warblers and other songbirds. A total of 3 Golden-winged Warblers were detected at this point location.

This point was visited June 1, 2018 and June 20, 2018 to survey for Golden-winged Warblers and other songbirds. A total of 3 Golden-winged Warblers were detected at this point location.

We detected a total of 24 species at this point over the 2 years of surveys. Of the 24 species we detected, 4 are currently considered at-risk species (denoted in the list with an asterisk).

- |                              |                            |
|------------------------------|----------------------------|
| 1. Alder Flycatcher          | 13. Northern Cardinal      |
| 2. American Robin            | 14. Northern Flicker       |
| 3. Black-billed Cuckoo*      | 15. Ovenbird               |
| 4. Blue Jay                  | 16. Pileated Woodpecker    |
| 5. Canada Goose              | 17. Red-eyed Vireo         |
| 6. Cedar Waxwing             | 18. Red-winged Blackbird   |
| 7. Chestnut-sided Warbler    | 19. Ruffed Grouse          |
| 8. Common Yellowthroat       | 20. Sedge Wren*            |
| 9. Golden-winged Warbler*    | 21. Song Sparrow           |
| 10. Great Crested Flycatcher | 22. Tufted Titmouse        |
| 11. Hairy Woodpecker         | 23. Veery*                 |
| 12. Mallard                  | 24. White-throated Sparrow |

**pub235**

This point was visited on May 30, 2017 and June 21, 2017 to survey for Golden-winged Warblers and other songbirds. A total of 1 Golden-winged Warbler was detected at this point location.

This point was visited May 27, 2018, June 1, 2018, June 17, 2018, and June 20, 2018 to survey for Golden-winged Warblers and other songbirds. A total of 2 Golden-winged Warblers were detected at this point location.

We detected a total of 20 species at this point over the 2 years of surveys. Of the 20 species we detected, 2 are currently considered at-risk species (denoted in the list with an asterisk).

- |                      |                           |
|----------------------|---------------------------|
| 1. Alder Flycatcher  | 4. Cedar Waxwing          |
| 2. American Redstart | 5. Chestnut-sided Warbler |
| 3. Blue Jay          | 6. Chipping Sparrow       |

- |                           |                            |
|---------------------------|----------------------------|
| 7. Common Raven           | 14. Ovenbird               |
| 8. Common Yellowthroat    | 15. Red-breasted Nuthatch  |
| 9. Golden-winged Warbler* | 16. Red-eyed Vireo         |
| 10. Least Flycatcher      | 17. Sedge Wren*            |
| 11. Mallard               | 18. Song Sparrow           |
| 12. Mourning Dove         | 19. Swamp Sparrow          |
| 13. Mourning Warbler      | 20. White-throated Sparrow |

**pub236**

This point was visited on May 10, 2017 to survey for American Woodcock. We detected a total of 3 American Woodcock at this point location.

This point was visited again on May 30, 2017 and June 21, 2017 to survey for Golden-winged Warblers and other songbirds. A total of 1 Golden-winged Warbler was detected at this point location.

This point was visited on June 20, 2018 to survey for Golden-winged Warblers and other songbirds. A total of 2 Golden-winged Warblers were detected at this point location.

We detected a total of 21 species at this point over the 2 years of surveys. Of the 21 species we detected, 2 are currently considered at-risk species (denoted in the list with an asterisk).

- |                           |                            |
|---------------------------|----------------------------|
| 1. Alder Flycatcher       | 12. Mourning Warbler       |
| 2. American Crow          | 13. Nashville Warbler      |
| 3. American Goldfinch     | 14. Northern Flicker       |
| 4. American Redstart      | 15. Ovenbird               |
| 5. Blue Jay               | 16. Red-eyed Vireo         |
| 6. Chestnut-sided Warbler | 17. Rose-breasted Grosbeak |
| 7. Chipping Sparrow       | 18. Ruffed Grouse          |
| 8. Common Yellowthroat    | 19. Song Sparrow           |
| 9. Golden-winged Warbler* | 20. Veery*                 |
| 10. Least Flycatcher      | 21. White-throated Sparrow |
| 11. Mourning Dove         |                            |

**pub237**

This point was visited on May 30, 2017 and June 21, 2017 to survey for Golden-winged Warblers and other songbirds. We did not detect any Golden-winged Warblers at this point.

This point was visited on June 1, 2018, June 2, 2018, June 20, 2018, and June 21, 2018 to survey for Golden-winged Warblers and other songbirds. A total of 1 Golden-winged Warbler was detected at this point location.

We detected a total of 21 species at this point over the 2 years of surveys. Of the 21 species we detected, 3 are currently considered at-risk species (denoted in the list with an asterisk).

- |                            |                            |
|----------------------------|----------------------------|
| 1. Alder Flycatcher        | 12. Mourning Warbler       |
| 2. American Redstart       | 13. Nashville Warbler      |
| 3. Black-and-white Warbler | 14. Ovenbird               |
| 4. Black-capped Chickadee  | 15. Red-eyed Vireo         |
| 5. Blue Jay                | 16. Rose-breasted Grosbeak |
| 6. Cedar Waxwing           | 17. Ruffed Grouse          |
| 7. Chestnut-sided Warbler  | 18. Sedge Wren*            |
| 8. Common Raven            | 19. Song Sparrow           |
| 9. Common Yellowthroat     | 20. Veery*                 |
| 10. Golden-winged Warbler* | 21. White-throated Sparrow |
| 11. Least Flycatcher       |                            |

A total of 36 species were detected across the 6 points surveyed in 2017 and a total of 27 species were detected across the 4 points surveyed in 2018. The 10 most frequently detected species across all points for each year are listed in the table below.

	<b>2017</b>	<b>2018</b>
1	White-throated Sparrow	Common Yellowthroat
2	Ovenbird	American Redstart
3	Chestnut-sided Warbler	Golden-winged Warbler
4	Common Yellowthroat	Chestnut-sided Warbler
5	Blue Jay	Red-eyed Vireo
6	Song Sparrow	Sedge Wren
7	Black-and-white Warbler	Alder Flycatcher
8	Golden-winged Warbler	Least Flycatcher
9	Red-eyed Vireo	Mourning Warbler
10	Veery	White-throated Sparrow

Thank you for allowing us to conduct these surveys on your property! We look forward to continue working with you to manage and maintain healthy young forest habitat to benefit wildlife like Golden-winged Warblers and American Woodcock on your property and across the region.

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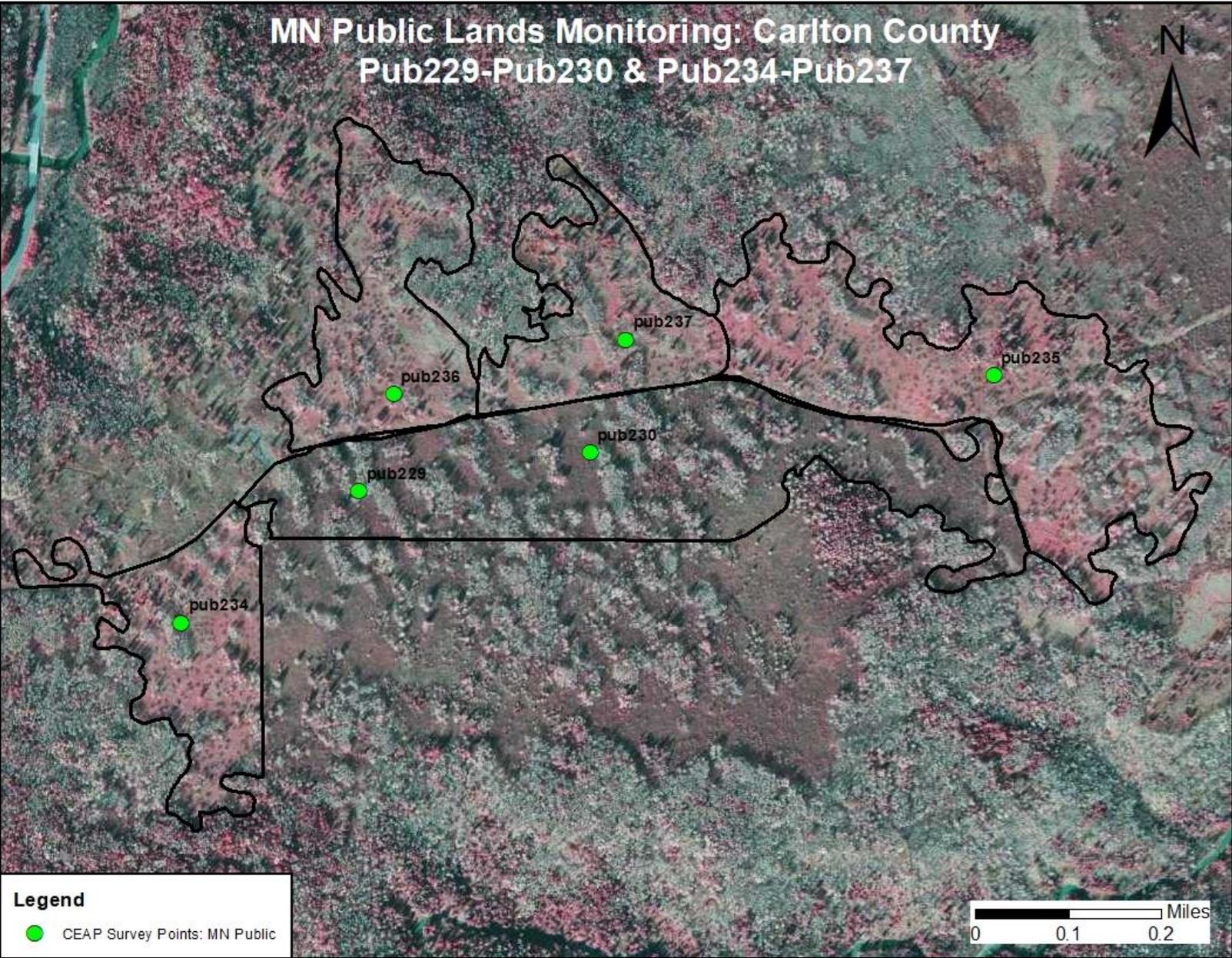
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# MN Public Lands Monitoring: Carlton County Pub229-Pub230 & Pub234-Pub237



### Legend

 CEAP Survey Points: MN Public

0 0.1 0.2 Miles