Golden-cheeked Warbler (GCWA)
Survey Area Data Reporting Instructions

USFWS Austin ESFO
Updated January 2022

GCWA survey area data must be submitted either in a GIS polygon shapefile (preferred) or an Excel spreadsheet. Data must be submitted in accordance with the formatting instructions below. All survey areas for a given survey/reporting year must be submitted as one file per permit. Failure to submit data in accordance with these instructions will be considered an incomplete annual report submission.

Excel spreadsheet:
If submitting data in an Excel spreadsheet: (1) also submit a map clearly illustrating the exact location of the surveyed area(s) within the context of the surrounding landscape so we can relocate them on a USGS topo, aerial photo, or street map, and (2) clearly delineate the boundaries of the surveyed area(s) so we can digitize them accurately.

1. **Prop_Name** (Format cells = General): Name of property or portion of property surveyed.
2. **Surv_Name** (Format cells = General): Name of area surveyed if not the entire property. If data is submitted as an Excel spreadsheet, include a map that clearly shows the boundary of each area surveyed within the property or site polygon. Each surveyed area should be labeled on the map and should correspond with an identically labeled row (or rows if surveyed on more than one day) in the Excel spreadsheet.
3. **Surv_Acres** (Type = Number): Size of surveyed area in acres.
4. **Comp_ Name** (Format cells = General): Name of company/organization or individual responsible for conducting the surveys.
5. **Surv_Date** (Type = Number): Date of survey. Entries should be formatted as YYYYMMDD.
6. **Surv_Type** (Format cells = General): Describe the type of survey conducted. Entries should be limited to [Protocol, Non-Protocol].
7. **Type_Notes** (Format cells = General): Briefly describe the type of survey conducted if you used "Non-protocol" in the Surv_Type column. This is only intended to be a brief description; a complete description of any non-FWS protocol survey conducted should be included in the annual report narrative that references this survey.
8. **Begin_Time** (Type = Number): Report the time the survey began using military time. Excel drops leading zeros (e.g., 0800), but please format cells as numbers in Excel (not text).
9. **End_Time** (Type = Number): Report the time the survey ended using military time. Excel drops leading zeros (e.g., 0800), but please format cells as numbers in Excel (not text).
10. **Tapes** (Format cells = General): Report whether tapes were used or not. Entries should be limited to [Yes, No].
11. **Species** (Format cells = General): Bird species observed during the survey. Entries should be limited to [GCWA, BCVI, Both or None]. Black-capped Vireo (BCVI) is no longer federally listed, so permit holders are not required to collect or report BCVI observation data, but it is appreciated.

12. **Spec_Surv** (Format cells = General): Bird species for which you were conducting surveys. Entries should be limited to [GCWA].

13. **WndSpd_Max** (Type = Number): Maximum observed wind speed during survey described above.

14. **WndSpd_Min** (Type = Number): Minimum observed wind speed during survey described above.

15. **Precip** (Format cells = General): Briefly describe any precipitation encountered during survey.

16. **Begin_Temp** (Type = Number): Report temperature at beginning of survey in degrees Fahrenheit.

17. **End_Temp** (Type = Number): Report temperature at end of survey in degrees Fahrenheit.

GIS shapefile:

Note: If submitting a shapefile, the polygon representing each area surveyed should be duplicated once for each day that it was surveyed and the information corresponding to each day's survey should be input into the attribute table row corresponding to that polygon.

1. **Prop_Name** (Type = Text; Length = 50): Name of property or portion of property surveyed.

2. **Surv_Name** (Type = Text; Length = 50): Name of area surveyed if not the entire property.

3. **Surv_Acres** (Type = Double): Size of surveyed area in acres.

4. **Comp_ Name** (Type = Text; Length = 50): Name of company/organization or individual responsible for conducting the surveys.

5. **Surv_Date** (Type = Double): Date of survey. Entries should be formatted as YYYYMMDD.

6. **Surv_Type** (Type = Text; Length = 25): Describe the type of survey conducted. Entries should be limited to [Protocol, Non-protocol].

7. **Type_Notes** (Type = Text; Length = 50): Briefly describe the type of survey conducted if you used "Non-protocol" in the Surv_Type column. This is only intended to be a brief description; a complete description of any non-FWS protocol survey conducted should be included in the annual report that references this survey.

8. **Begin_Time** (Type = Double): Report the time the survey began using military time.

9. **End_Time** (Type = Double): Report the time the survey ended using military time.

10. **Tapes** (Type = Text; Length = 3): Report whether tapes were used or not. Entries should only include [Yes, No].

11. **Species** (Type = Text; Length 5): Bird species observed during the survey. Entries should be limited to [GCWA, BCVI, Both or None]. Black-capped Vireo (BCVI) is no longer federally listed, so permit holders are not required to collect or report BCVI observation data, but it is appreciated.

12. **Spec_Surv** (Type = Text; Length 5): Bird species for which you were conducting surveys. Entries should be limited to [GCWA].

13. **WndSpd_Max** (Type = Double): Maximum observed wind speed during survey described above.

14. **WndSpd_Min** (Type = Double): Minimum observed wind speed during survey described above.

15. **Precip** (Type = Text; Length = 50): Briefly describe any precipitation encountered during survey.

16. **Begin_Temp** (Type = Double): Report temperature at beginning of survey in degrees Fahrenheit.
17. **End_Temp** (Type = Double): Report temperature at end of survey in degrees Fahrenheit.

	Visible	■ Read Only	Field Name	Alias	Data Type	☑ Allow NULL	☐ Highlight	Number Format	Domain	Default	Length
	☑	☐	Surv_Acres	Surv_Acres	Double	☑	☐	Numeric			
	☑	☐	Prop_Name	Prop_Name	Text	☑	☐				50
	☑	☐	Comp_Name	Comp_Name	Text	☑	☐				50
	☑	☐	Surv_Date	Surv_Date	Double	☑	☐	Numeric			
	☑	☐	Surv_Type	Surv_Type	Text	☑	☐				25
	☑	☐	Type_Notes	Type_Notes	Text	☑	☐				50
	☑	☐	Begin_Time	Begin_Time	Double	☑	☐	Numeric			
	☑	☐	End_Time	End_Time	Double	☑	☐	Numeric			
	☑	☐	Tapes	Tapes	Text	☑	☐				3
	☑	☐	Birds	Birds	Text	☑	☐				3
	☑	☐	Species	Species	Text	☑	☐				5
	☑	☐	Spec_Surv	Spec_Surv	Text	☑	☐				5
	☑	☐	WndSpd_Max	WndSpd_Max	Double	☑	☐	Numeric			
	☑	☐	WndSpd_Min	WndSpd_Min	Double	☑	☐	Numeric			
	☑	☐	Precip	Precip	Text	☑	☐				50
	☑	☐	Begin_Temp	Begin_Temp	Double	☑	☐	Numeric			
	☑	☐	End_Temp	End_Temp	Double	☑	☐	Numeric			
	☑	☑	SHAPE_Length	SHAPE_Length	Double	☑	☐	Numeric			
	☑	☑	SHAPE_Area	SHAPE_Area	Double	☑	☐	Numeric			

Figure 1. GIS fields needed for survey area data