DOCUMENTATION FOR CANADIAN BBS 50-STOP DATA FOR 1966-1996
May 5, 2009

Background

The North American Breeding Bird Survey (BBS) is conducted in sets (called "routes") of 50 point counts (called "stops"). From the beginning of the BBS in 1966 until 1997 data were entered into the database in 10-stop summary totals. These summary data are referred to as "original data" in the 50-stop data file comments and documentation. Database structure has evolved over the years so that the summary database now has the following fields:

Country: The ISO standard code for the country (Canada is 124)
sStateProv: the two-letter BBS numeric code for the province or state (04 = Alberta; 79 = Saskatchewan)
sRoute: the route number (001, 002, etc)
iYear: year of the survey
Aou: AOU-style 5-digit number representing the species
Count10: total number of the given species found on stops 1-10
Count20: total number of the given species found on stops 11-20
Count30: total number of the given species found on stops 21-30
Count40: total number of the given species found on stops 31-40
Count50: total number of the given species found on stops 41-50

By 1997 new technology (optical character recognition and Internet data sharing) allowed the BBS to capture data much more quickly than before, so it became practical to enter data stop-by-stop. In 1997 the BBS began capturing count data for each of the 50 stops. In this data set the fields Count10 through Count50 are replaced by fields St1, St2, St3 … through to St50, representing each of the 50 stops, or survey points, on the BBS route. Previously data had been entered by key-punch card, and later by keyboard typing.

Recently the Canadian and US BBS offices have recognized that it would be valuable to enter stop by stop data for routes run prior to 1997. So far the Canadian office has done this for routes in Alberta and Saskatchewan. The 50-stop data for routes prior to 1997 will be kept as a dataset separate from the original 10-stop summary entered in the principle BBS database for those years. For various reasons there are some discrepancies between the original 10-stop summary data and the newly-entered 50-stop data. Discrepancies and other issues are described in tables 3 and 4, below.

How were historical 50-stop data entered and processed?

Contract data entry personnel used pre-designed Excel spreadsheet templates based on the original data as found in the existing database. Species were sorted to match as closely as possible the field sheets of the time. They then entered stop data from the field sheets into the appropriate cell on "page by page" basis. One field sheet page represents on set of 10 stops. The new total for each species entered was automatically compared to the existing 10-stop summary data. Error flags were generated where the new and old data did not match. If possible at the time, contractors made necessary corrections to their work. Afterwards BBS staff reviewed all persisting error flags either to make further corrections or to note where the newly-entered 50-stop data would have to differ from the original 10-stop summary data. This process also drew attention to some data entry errors in the original data. These errors have been compiled and will be made to the original data when and if it is practical.

Error codes, comments and their associated fields have been left in the 50-stop data set even though they are not integral to the data. They may be a useful reference for anyone who is using the 10-stop summary data together with the 50-stop data, or for explaining species or counts that may seem unusual.

The following 50-stop data files are available at January 14, 2009:

Alberta 1968-1980 (BBS_AB_68-80.csv) (no Alberta data prior to 1968)
Alberta 1981-1986 (BBS_AB_81-86.csv)
Alberta 1987-1989 (BBS_AB_87-89.csv)
Alberta 1990-1996 (BBS_AB_90-96.csv)
Saskatchewan 1968-1989 (BBS_SK_68-89.csv) (no Saskatchewan data prior to 1968)
Saskatchewan 1990-1996 (BBS_SK_90-96.csv)

Rows_Removed_all.csv contains rows that were removed from the all 50-stop data files because they could not be matched to the original data. See comments.
Error_Codes.csv is a key for the codes in the Error Codes column. Error Codes are also described in Table 2, below

Table 1. Structure of the 50-stop data files

Field Name	Description and Purpose
Id	ID number for each row. Not found in all files. Is retained as connection to contractor's initial data entry work but is not integral to data. Not found in the original BBS database.
State	Indicates the province or territory for the data. 4 = Alberta, 45 = Manitoba, 79 = Saskatchewan
Route	Indicates the route number. Allowable range is 1 – 999
Year	Year in which the data were collected. Four-digit year.
Page	Represents a specific group of 10 stops. 1 = stops 1-10 2 = stops 11-20 3 = stops 21-30 4 = stops 31-40 5 = stops 41-50
AOU Number	Species number per old American Ornithologists' Union (AOU) system or BBS system. Note that the BBS database now uses a five digit number, but the 2-4 digit numbers found in these files will be the same as the right-most digits in the newer BBS numbers. In most cases the BBS numbers add leading zeros, the left-most of which is the continent code for North America.
SpCode	Four-letter species alpha code, in most cases the same as the Bird Banding Laboratory banding codes. Not found in all files. Not integral to data. Not found in the original BBS database.
Species Name	English Common Name of species. Should follow American Ornithologists Union except for BBS exceptions.
Stop_1 through Stop_0	Count for the particular species/stop (survey point or station) number . Actual stop number depends on page. On page 1, Stop_1 is stop 1, Stop_0 is stop 10. On page 2, Stop_1 is really stop 11 and Stop_0 is stop 20, etc.
New Total	Totals stop data entered during 50-stop data entry process, for visual comparison with the Old Total field. Formula.
Old Total	Total for this species/stop imported from the regular BBS database, for comparison and error detection.
Compare	Displays a flag for discrepancies between new total and old total. These should all be accompanied by a code in the "error code" column and a comment in the "Comments" column. In some files it is generated by formula. It is not integral to the data.
Error Code	Describes error type. See error codes, Table 2 below.

Comment	Comments related to error, may advise re further action

Table 2. Error Codes (showing discrepancies between 50-stop and original data) used in 50-stop data files

Code	Means	Explanation
A	Observer addition error	The observer made an error adding up the stop data for the 10-stop summary total. The observer then transferred the wrong total to the summary page from where the datum was entered into the original database by BBS staff. For the time being these errors indicate a discrepancy between the 50-stop data, which should give the correct total, and the original data which should at some point be corrected.
T	Observer transcription error	The observer transcribed an incorrect total to the summary sheet even though it was added correctly on the field sheets.
E	Original data entry error - wrong total	Original data entry error. Total shown on field and summary sheets does not match total entered in original database. These errors should eventually be corrected in the original data.
MT	Record missing - observer transcription error.	Record is missing from original data due to a transcription error by the observer. Species was recorded on field sheets but was not transcribed to summary sheet therefore was not entered during original data entry process. Currently this represents a discrepancy between the 50-stop and original data. These errors should eventually be corrected in the original data.
ME	Record missing - original data entry error.	Record appears on field sheets and summary sheet but was not entered into original database apparently in error by original data entry staff. Currently this represents a discrepancy between the 50-stop and original data. These errors should eventually be corrected in the original data
MD	Record missing - BBS staff deleted from original data	Record not found in original data either because it deliberately was not entered, or was subsequently deleted by BBS staff. Reasons for this may be because the species was believed to be misidentified, out-of-range, or a non-breeder. In these cases we defer to the decision of BBS staff by not changing the original data, but these records are included in the 50-stop data. Please see the comments column. The observer may also have reported it as an error after it was entered, and it was subsequently removed from the database but not from the field and summary sheets. This code has also been used when data were entered into the original database but were coded as “unacceptable”, having Quality Code 4, and are therefore not available for public download.
X	Species change	During original data entry BBS staff changed the species reported by the observer to a different species. This might have been done because BBS staff believed the observer confused the two species or was not aware that they were in the range of a species that might otherwise be difficult to distinguish from an out-of-range species they reported. In these cases we defer to the decision of BBS staff by changing the 50-stop data as entered to match the original data. The comment column should show which species the observer

		actually reported.
N	Name change	Several species names changed between the times of original data entry and 50-stop data entry, due to lumping or splitting of species. This resulted in some entries in the 50-stop data that did not match the original data, and vice-versa. These are not really errors; all have been revised so that the 50-stop data reflects the nomenclature currently used by the BBS. So, the N flags should be of no consequence to the data user. They almost always show cases where the 50-stop data entry person took the initiative to enter the current form for the species even though this was not reflected in the original database.
50	50-stop data entry error	50-stop data entry person made an error. These have all been corrected and should be of no consequence to data users. Code retained in database for statistical reasons. They may not have been actual errors, but misinterpretations or decisions, since reversed by the 50-stop data entry person.

Table 3. Discrepancies and other Remarks for Alberta 50-stop Data

Year	Route	Stop	Comments
1968	04010	1-10	Page one (stops 1-10) are missing from 50-stop data because the paper page could not be found. Rows have been removed from the main worksheet but are in the "Removed Rows" worksheet.
1968	04031	All	Data were not entered in the database for unknown reasons, perhaps because they were considered to be unacceptable.
1968-1980	Various	Various	The original data for these years show a higher than usual number of instances of BBS staff historically deciding that species observers reported were incorrect somehow. The species are crossed out on the summary pages and were not entered in the original data. Presumably this was done with good reason. However, in many cases the species was not obviously out of range or out of season. We have to assume that BBS staff suspected the species was misidentified. These records have been retained in the 50-stop data where they have "MD" in the error column, and a comment. They are listed by route/year in this table. Users should treat these records with caution.
1970	04020	1-10	Observer reported 8 Baird's Sparrows in total for this page, but it seems to have been in a correction made after the fact. The summary sheet was corrected, but not the field sheets, so we do not know at which stops the birds were found. The row has been removed from the main worksheet and is in the Rows Removed worksheet.
1972	04004		The observer reported the following species which were then crossed out on the summary page by BBS staff, reason uncertain. These were not entered in the original data but are left in the main table of 50-stop data, with the error code "MD" and a comment: Grasshopper Sparrow, Song Sparrow.
1972	04006		The observer reported the following species which were then crossed out on the summary page by BBS staff, reason uncertain. These were not entered in the original data but are left in the main table of 50-stop data, with the error code "MD" and a comment: Veery, Song Sparrow.
1972	04008	All	The observer reported the following species which were then crossed out on the summary page by BBS staff, reason uncertain. These were not entered in the original data but are left in the main table of 50-stop data,

			with the error code “MD” and a comment: Nelson’s Sharp-tailed Sparrow, Grasshopper Sparrow, Field Sparrow (out of range), Song Sparrow.
1972	04038	All	The observer reported the following species which were then crossed out on the summary page by BBS staff, reason uncertain. These were not entered in the original data but are left in the main table of 50-stop data, with the error code “MD” and a comment: Fox Sparrow.
1973	04019	21-30	The observer reported the following species which were then crossed out on the summary page by BBS staff, reason uncertain. These were not entered in the original data but are left in the main table of 50-stop data, with the error code “MD” and a comment: Mourning Warbler.
1973	04036	All	Route data are not available for public download because the route was assigned a quality code indicating “unacceptable data” for this year.
1973	04041	11-20 and 21-30	The observer reported one Lincoln’s Sparrow in stops 11-20 and 3 in stops 21-30. These were written in on summary pages apparently after the fact, as a correction. The field sheets were not correspondingly updated so we do not know what stops they were at. The row has been moved from the main data table to the “removed rows” table.
1973	04048	All	The observer reported the following species which were then crossed out on the summary page by BBS staff, reason uncertain. These were not entered in the original data but are left in the main table of 50-stop data, with the error code “MD” and a comment: Grasshopper Sparrow.
1974	04037	All	The observer reported the following species which were then crossed out on the summary page by BBS staff, reason uncertain. These were not entered in the original data but are left in the main table of 50-stop data, with the error code “MD” and a comment: Grasshopper Sparrow, Northern Hawk-Owl.
1975	04008	31-40	A Common Snipe was reported in these stops so we do not know what stop it was at. The row has been removed from the main table and placed in the Rows Removed worksheet.
1978	04040	All	Route data are not available for public download because the route was assigned a quality code indicating “unacceptable data” for this year.
1975	04048	All	The observer reported the following species which were then crossed out on the summary page by BBS staff, reason uncertain. These were not entered in the original data but are left in the main table of 50-stop data, with the error code “MD” and a comment: Pied-billed Grebe.
1976	04040	11-20	Observer reported 2 Bonaparte’s Gulls on these stops but did not indicate which stop. Therefore they could not be entered in the 50-stop data even though they were entered in the original data. The row has been moved from the main table to the Removed Rows table.
1980	04001	All	The observer reported the following species which were then crossed out on the summary page by BBS staff, reason uncertain. These were not entered in the original data but are left in the main table of 50-stop data, with the error code “MD” and a comment: Spotted Sandpiper.
1980	04007	All	The observer reported the following species which were then crossed out on the summary page by BBS staff, reason uncertain. These were not entered in the original data but are left in the main table of 50-stop data, with the error code “MD” and a comment: White-winged Scoter.
1981	04030	41-50	Route ended at stop 42, therefore no data for stops 43-50. However observer entered on summary page several species for page five that are not found on fields sheets. We don’t know the source of them. Because

			we don't know what stops they were at, these rows have been moved to the "Removed Row" worksheet. He also entered totals for many species, that do not match the field sheets. We do not know the reason for this. These rows show error flags in the main worksheet.
1982	04017	11-20	One Hermit Thrush was added to the summary page seemingly after the fact, so it was likely a correction reported by the observer. It was entered in the original data. However, we do not know what stop it was at so it is not entered in the 50-stop data.
1983	04004	All	Data were not entered in the database for unknown reasons, perhaps because they were considered to be unacceptable.
1983	04010	All	Field sheets could not be found so data couldn't be entered in 50-stop data. Totals from original data are included in "Removed Rows" worksheet.
1984	04108	All	Field sheets could not be found so data couldn't be entered in 50-stop data. Totals from original data are included in "Removed Rows" worksheet.
1986	04032	All	Route data are not available for public download because the route was assigned a quality code indicating "unacceptable data" for this year.
1988	04005	Various	The observer reported Audubon's Warbler on his field sheets. Myrtle Warbler was also available on the form. In some places he scratched out Audubon's and wrote in Yellow-Rumped. These were all transcribed as Yellow-rumped, but entered in original data as Myrtle. Route is in overlap zone of both subspecies.
1990	04001	All	It seems that all the data entered for 04001 for 1990 in the original database are not from the same survey as what appears on the field sheets for that year/run. Data in the 50-stop database were entered from the field sheets. If a correction is to be made, it would be to replace the data in the original database with this.
1990	04004	All	Was not entered in the original database because it was a short run (20 stops). These are included in the 50-stop data.
1991	04116	All	Route data are not available for public download because the route was assigned a quality code indicating "unacceptable data" for this year; reason unknown.
1991	04208	All	Was not entered in the original database because apparently only page 1 of data was ever received.
1992	04116	All	Route data are not available for public download because the route was assigned a quality code indicating "unacceptable data" for this year; reason unknown.
1993	04042	All	Route data are not available for public download because the route was assigned a quality code indicating "unacceptable data" for this year; reason unknown.
1993	04227	All	Not entered in original data for unknown reasons.
1994	04042	All	Route data are not available for public download because the route was assigned a quality code indicating "unacceptable data" for this year.
1996	04042	36	Observer reported 3500 Cliff Swallows. However, at the time of original data entry the system could accommodate numbers only up to three digits long, so 999 was entered in the original data. This may be corrected in the future if it is possible to enter four or more digits.
1996	04227	All	Was not entered in the original data for unknown reasons.
1996	04928	All	Was not entered in the original data for unknown reasons.

Table 4. Discrepancies and other Remarks for Saskatchewan 50-stop Data

Year	Route	Stop	Comments
Various	Various	Various	**Unidentified Gulls** often were not entered during the original data entry process, although they were entered more often in later years (90s). Where they were entered in the 50-stop data entry process but not in the original data they were then deleted them in deference to the patterns of the original data. So-called **white-headed gulls**, on the other hand, were originally entered if reported. This is a designation that no longer exists in the BBS database. Presumably the records have been reattributed to U.I. Gull. It used to be used in the prairies to indicate one of the "white-headed" gull species (Ring-billed, Herring, California) that couldn't be indentified to species and was meant to distinguish them from "black-headed" gulls, mostly Franklin's Gulls (at least in Canada).
Various	Various	Various	Overstopping migrating shorebirds that were recorded on data forms were not entered during original data entry process. These were entered in 50-stop data entry process but as they are migrants/vagrants/non-breeders they were subsequently deleted. Snow Geese and Greater White-fronted Geese were also treated this way.
1969 1970	79014 79004		On this and some other routes, Short-billed Dowitcher was reported by the observer. These were not entered during original data entry because they were migrating shorebirds. During the 50 stop data entry process they were, for some reason, entered as Sharp-tailed Grouse. These have been deleted from the finalized 50-stop data.
1970	79027		Field sheets found, but summary page missing. Summary data had not been entered in original database. In fact route does not exist in database so assume it was found not to be suitable after this one year. Data Deleted from finalized 50-stop data.
1971	79017	41-50	On field sheets observer had recorded small numbers of tree swallows at most stops on page 5. These were transcribed to the summary page as Horned Lark, which is on the line above. Therefore the data were entered in the original database as Horned Lark. All other pages of the field sheets showed Horned Larks in comparable numbers. However, Tree Swallow had never before nor after been reported on this route. While the 50-stop data entry person entered these as Tree Swallow, we assume, based on above, that they are Horned Larks and have corrected the 50-stop data accordingly.
Various	79004 79104 79204	All	There is some inconsistency with these route names and numbers. Data were originally entered under route numbers that do not match exactly what appears on the field sheets. This is likely due to routes being modified, renamed and renumbered, but the field sheets not correspondingly corrected. The table below shows correspondences between the various names and numbers.

Year	Field Sheets Say	Summary Sheet says	Entered in original data as
1970	004 Axford	004 Axford	004 Axford
1971	004 Axford*	004 Axford* but Connie had	104 Ceylon

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<tr><td>1973</td><td>004 Axford*</td><td>004 Axford*</td><td>104 Ceylon</td></tr>
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<tr><td>1997</td><td></td><td></td><td>204 Parry</td></tr>
<tr><td></td><td>* field sheets have been relabelled to reflect route number under which data were entered.</td><td>In present database 79204 is Parry.</td><td></td></tr>
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<tr><td>1975</td><td>79005</td><td>21-40</td><td>Two Chestnut-collared Longspurs, one Brown Thrasher and one Brewer’s Blackbird were reported on the summary page but could not be found anywhere on the field sheets. We assume the observer reported the birds after data submission, to correct an error, and it BBS staff wrote it in on the summary sheet but not on the field sheet. We do not know what stop it was at, so we could not enter it in the 50-stop data.</td></tr>
<tr><td>1977</td><td>79029</td><td>21-30</td><td>A Warbling Vireo was reported on the summary page but could not be found anywhere on the field sheets. We assume the observer reported the bird after data submission, to correct an error, and it BBS staff wrote it in on the summary sheet but not on the field sheet. We do not know what stop it was at, so we could not enter it in the 50-stop data.</td></tr>
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1978	79029	31-40	A Sora was reported on the summary page but could not be found anywhere on the field sheets. We assume the observer reported the bird after data submission, to correct an error, and it BBS staff wrote it in on the summary sheet but not on the field sheet. We do not know what stop it was at, so we could not enter it in the 50-stop data.
1978	79039	5	The observer reported Eastern Wood-Pewee. This is clear on both field sheets and summary page. The data were originally entered as Western Wood-Pewee. This wasn't a data entry error, it seems, because the same thing was done for the same species on other routes near this one, in other years. The route is outside of the shown (birdmap Canada, North American Birds) range for EAWP and well within the range for WEWP. However, on a small number of routes close to each other (79039, 031 and 041, 042) EAWP was reported by different observers over several years.
1979	79023	All	Route has entered in original (summary) data entry but was coded as unacceptable. There is no evidence on the data forms as to why, so we assume it has to do with the route itself. Data were also entered during the 50-stop data entry project, but the original data were unavailable to check for errors.
1979	79032	41-50	A Black-billed Magpie was reported on one of these stops, but we don't know which one, so it could not be entered in the 50-stop data.
1979	79039	5, 8, 22	See 79039 for 1978
1978-1987	79020 79031 79039 79041 79042	Various	During this time period a number of Eastern Wood-pewees were reported by several observers on routes in central SK where BCR 11 meets BCR 6. Except for 79020, where both Eastern and Western Wood-Pewee have been accepted in the orginal data, these reports are out of range according to documentation. These records were clearly indicated on the fields sheets, especially since the observer had to write in the letter "E" before the word "phoebe" to indicate which species they were reporting. However, some were changed to Western Wood-Pewee at the time of transcription, and all were entered in the original data by BBS staff asWestern Wood-pewee. Consultation with the SK BBS coordinator in 2008 confirmed that the decision to change the species was likely a good one, in the belief that it was misidentified.
1980	79137	All	Was not entered during 50-stop data entry process, reason uncertain. Was entered originally, but was coded as unacceptable so is not available for public download, reason also uncertain. There is indication of bad weather on the route, but this normally does not result in coding so stringent that the data are not made available. Data available on paper, by request to BBS office.
1982	79025	All	Data were not entered in the original data base, presumably because weather data were not provided.
1982	79040	1-10	Observer reported a Red-necked Grebe somewhere in the first 10 stops but did not say on which stop. Therefore the record appears in the original (10-stop summary) data but could not be entered in the 50-stop data.
1982	79042	41-50	An Eastern Phoebe was reported on the summary page but could not be found anywhere on the field sheets. We assume the observer reported the bird after data submission, to correct an error, and it

			BBS staff wrote it in on the summary sheet but not on the field sheet. We do not know what stop it was at, so we could not enter it in the 50-stop data.
1986	79042	31-40	An Eastern Phoebe was reported on the summary page but could not be found anywhere on the field sheets. We assume the observer reported the bird after data submission, to correct an error, and it BBS staff wrote it in on the summary sheet but not on the field sheet. We do not know what stop it was at, so we could not enter it in the 50-stop data.
1986	79031	31-40	A Magnolia Warbler was reported on the summary page but could not be found anywhere on the field sheets. We assume the observer reported the bird after data submission, to correct an error, and it BBS staff wrote it in on the summary sheet but not on the field sheet. We do not know what stop it was at, so we could not enter it in the 50-stop data.
1990	79111	Any	Observer reported Eastern Wood-Pewee clearly on both field sheets and summary page. However, this seems not to have been entered at all in the original data entry (unlike in some earlier-reported cases where it looks like the BBS office changed reported Eastern Wood-Pewees to Western Wood-Pewees. This route is just on the edge of EAWP range according to BirdMap Canada. The Saskatchewan Breeding Bird Atlas (1996) shows numbers of possible and probable breeding records for EAWP in SE Saskatchewan, so I don't see way the species should be rejected as non-breeding. When consulted in 2008 the SK BBS coordinator said the species should be found only in SE corner of the province.
1992-1995	79015	Various	The data for this route were entered into the database originally, but for all there years were coded as Unacceptable. Reasons were no doubt legitimate but are no longer known at 2008. These data should be used with caution. Field Sparrow was reported on the route in 1992-1995, clearly indicated on the field and summary sheets, but the species was not entered in the original data entry. Although there is no supporting documentation, this was probably because original data handlers perceived this to be misidentification. In 2008 Saskatchewan BBS coordinator Al Smith confirmed that these records were most likely errors and should best be left out of the database. These records were, however, left in the 50-stop data. See comments.
1992-1995	79115	Various	Field Sparrow was reported on the route in 1992-1995, clearly indicated on the field and summary sheets, but the species was not entered in the original data entry. Although there is no supporting documentation, this was probably because original data handlers perceived this to be misidentification. In 2008 Saskatchewan BBS coordinator Al Smith confirmed that these records were most likely errors and should best be left out of the database. (note that the observer and the observer for 79015, above, took turns as assistant and observer on both routes. These records were, however, left in

			the 50-stop data. See comments.
1992	79142	1-10	Field sheets are missing for these stops therefore data could not be entered in the 50-stop data. Totals from the original data ("Old Total") are found in the "Removed Rows" worksheet.
1994 1995	79125	49	Observer reported an Orchard Oriole at this stop which he did not transcribe to summary page. Although later corrected, record was not entered into original data base. Route is somewhat out of range; very few ORORS ever reported in SK. Assume record was left out of original data deliberately, most likely being determined as a non-breeder. Record removed from 50 stop data. Exactly the same thing happened in 1995 at stop 16. Assume observer also interpreted this as non-breeder and did not intend it to be entered in final data.
1995	79020	7	Observer reported 2 Common Grackles at this stop on field sheets, then transcribed them erroneously to page 2 of the summary page. Then the species/count was crossed out on the summary page, presumably by BBS staff. Assume observer later reported this as an error so they were removed. (They do not appear in the original data.) Deleted from the 50-stop data.
1995	79142	21-31	The observer reported a Common Raven on this page but did not indicate at which stop. Therefore the record could not be entered in the 50-stop data.
1996	79046	Any	This route was entered into original data but was coded as unacceptable. The observer expressed uncertainty about the records of Hermit Thrush, saying they might all be Swainson's Thrush. An American Tree Sparrow reported at stop 10 was not entered in the original data presumably because it was deemed to be out of range, non-breeding or misidentified. The observer reported one Warbling Vireo at each of stops 37, 38, 39. These were not entered in the original data. It is not clear if this was because there was doubt about them or if it was a data entry error. The reports would be just slightly north of other BBS records. Data for this run should be used with caution.