

EVENING GROSBEEKS DIED TO SUPPLY BANDS FOR THIS "JEWELRY"

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The story which is about to unfold would probably never have been written had not Dr. Paul H. Fluck banded a certain Starling (*Sturnus vulgaris*) at Hatboro, Pa. When Dr. Fluck attached band No. 532-23158 to this Starling's leg on November 30, 1955 he initiated a series of events which was to cause the deaths of hundreds of Evening Grosbeaks (*Hesperiphona vespertina*), the exact total of which can never be known.

The Starling in question found its way to Lac Humqui in Matapeedia county of Canada's Quebec Province. One of the farms situated on the shore of the lake is owned by Monsieur Thomas Brousseau and it was his cat that caught the bird on April 4, 1958.

M. Brousseau is one of the very few bilingual residents of that typically French-Canadian parish and he is a man of many interests and capabilities. Responding to the instructions conveyed by its legend he sent the band with appropriate information to the U. S. Fish and Wildlife Service. The subsequent arrival of the explanatory films sufficed to inoculate him with an awareness of the bird-banding process.

In addition to his functions as farmer, mayor of his parish, justice of the peace, and game warden, M. Brousseau, since 1929, has served from June to November of each year as salmon guardian on the West Branch of the Patapedia River. His camp is situated more than thirty miles into the bush from his farm. Just when in that span of time the Evening Grosbeaks began nesting in the vicinity of his isolated camp is impossible to ascertain, but he reports that he noticed the bands on their legs only after the incident of the banded Starling.

His interest whetted by the experience of having reported the Starling band, M. Brousseau was particularly receptive to the misinformation supplied to him by thoughtless, or equally misinformed, persons. These misinformants were some of the "sports" who had sought him out in his capacity as fishing and hunting guide. They told him, in effect, that the U. S. Fish and Wildlife Service treasured the information carried by the bands and would consider it a valued act of cooperation on his part if this information were to be obtained and sent to that authority. Some "sports" went so far as to demonstrate the procurement of the information by actually shooting the banded bird.

With no reason to doubt these men (and women) M. Brousseau proceeded to "procure information" from the copious Evening Grosbeak flocks and faithfully to report every band to the U. S. F. & W. Service. Other guides and fire-rangers (notably M. Paul Boulanger on the Kedgwick River) learned of the "cooperation" and joined innocently in its performance, with M. Brousseau making periodic reports to F. & W. as the supply of recovered bands accumulated.

It may be difficult for some of our readers to comprehend the

sincerity of these men, but if they could live with them day and night for even as brief a space as the fortnight we shared M. Brousseau's camp with him, they could not but arrive, as have we, at the conclusion that their intent was definitely that of complete co-operation.

B. M. Shaub's (1960) paper has already exonerated these men from any intended misdemeanor or any comprehension of the fact that their conduct was other than helpful and commendable. Our own intent in this story is to repeat as little as possible of Mr. Shaub's material, but, rather, to contribute details which we inherited upon the occasion of our visit to the locale of these activities during June of 1962. We have already described this visit (Parks, 1963) and suggested that the present report would appear as a sequel thereto.

We were inspired to write this report when M. Brousseau revealed to us an accumulation of the bands which had been removed from dead birds and reported to U. S. F. & W. The bands were most intriguingly arranged in three groups. 115 of them were strung upon a watch chain. Another 95 were strung upon a three-strand metal chain bracelet. An additional 62 bands, forming another bracelet, were strung upon a length of fishline. Of these 272 bands we were informed that 270 had been worn by Evening Grosbeaks, the other two, by Purple Finches. These strings of bands, this watch chain and these two bracelets, we shall refer to as our "jewelry".

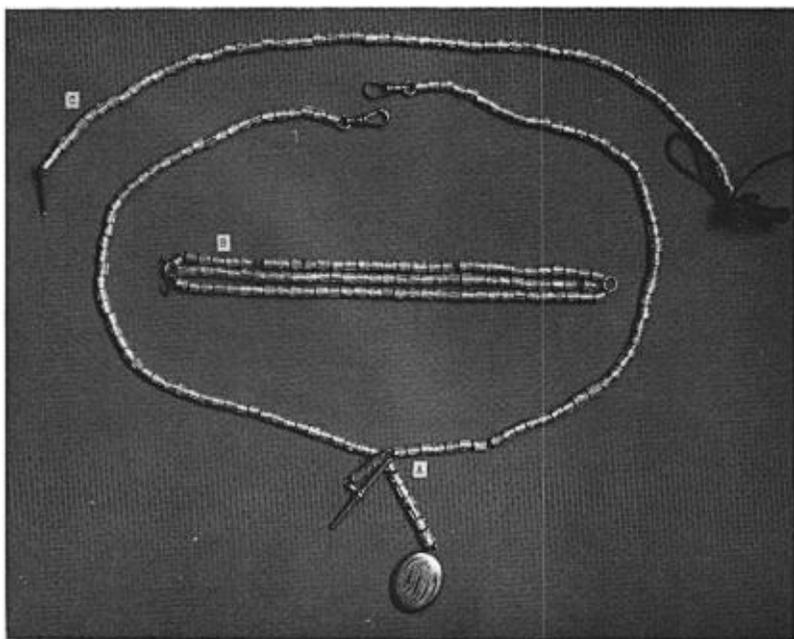
M. Brousseau supplied us, also, with a thick bundle of flimsies and IBM's, confirmatory proof of the fact that the bands had been properly reported. Being possessed of these records we are able to name the banders whose bands, innocently enough, became the cause of death for the birds that wore them. We are able, also, to name places and dates which will permit interested readers to trace instances of flock cohesion, flight patterns, *et cetera*. We realize full well that, although we shall exhaust all available material in its telling, our story must remain forever incompletely told. Some of the bands collected by other men are known to have been destroyed when authorities arraigned M. Brousseau, lest those bands involve their collectors also. Nor have we any records of the bands which "sports" "have taken - - - - along with them" (Shaub, 1960).

Foreword:—

Since we acquired these bands in the forms of a watch chain, a chain bracelet, and a fishline bracelet, we shall retain this same arrangement as we develop our report.

Our story shall be told in three tables: (a) Table 1, a list of the banders and of the stations where our bands were used; (b) Table 2, a list of the places at which, and the methods by which, the bands were recovered; (c) Table 3, a codified history of the birds that died because they wore these bands. Table 3 shall be subdivided into three parts, one part being reserved for the bands which compose each of our three pieces of "jewelry".

Each of the three tables shall be preceded by a brief introductory explanation.



THE BIRD-BAND "JEWELRY".

- A. The Watch Chain.
- B. The Metal Chain Bracelet.
- C. The Fishline "Bracelet".

Table 1:—

Table 1 lists the banders of the birds that carried, at the time of their deaths, the bands which constitute our "jewelry". The spelling of all names and addresses has been adopted from the flimsies and IBM's at hand without modification with the exception of a few instances in which individual banders have advised us of existing errors or of personal preferences. These exceptions we have attempted to revise accordingly.

Preceding each name in this table is a capital letter or a digit-and-a-capital-letter. This code is employed in Table 3 where its use is self-explanatory. Following each address, in parentheses, is a numeral which indicates the number of bands in our collection which came from birds originally banded at that station.

TABLE 1. BANDERS OF THE BIRDS WHOSE BANDS CONSTITUTE OUR "JEWELRY"

A—	Adams, Bruce — Burlington, Vermont (1)
B—	Albertine, L. Girard — Ware, Massachusetts (6)
C—	Avery, Mrs. Charles W. — Hamburg, New York (1)
D—	Bacon, Mrs. Anna Mac — Hamburg, New York (2)
E—	Beccher, Mrs. Barbara J. — Bennington, Vermont (4)
F—	Bigger, Walter K. — Proctor, Pennsylvania (3)
G—	Black, Angus — Saxons River, Vermont (3)
H—	Bordner, Miss Dorothy L. — State College, Pennsylvania (22)

- I—Brierley, Miss Frances — Adams, Massachusetts (9)
 J—Brouhard, Bernard — Two Rivers, Wisconsin (1)
 K—Broun, Maurice—Kempton, Pennsylvania (5)
 L—Bunker, Alfred — Cherrywood, Ontario (3)
 M—Burbank, Mrs. George — Sandwich, Massachusetts (1)
 N—Burtt, Benjamin — Syracuse, New York (1)
 O—Carpenter, Ralph G., 2nd. — Wolfeboro, New Hampshire (5)
 P—Carrier, Edgar A. — Bloomfield, Connecticut (2)
 Q—Clinch, Frank A. — Watertown, New York (13)
 R—Conkey, John H. — Ware, Massachusetts (1)
 S—Crowder, O. W. — Charlestown, Maryland (1)
 T—Cutler, Felix V. — Lexington, Massachusetts (2)
 U—Dater, Mrs. Eleanor E. — Ramsey, New Jersey (1)
 V—Davis, Harry, T. — Raleigh, North Carolina (1)
 W—Day, Paul H. — Milo, Maine (1)
 X—Dietert, Roy A. — Allendale, New Jersey (1)
 Y—Dilling, Forrest — Bowmanville, Ontario (2)
 Z—Downs, Mrs. James R. — South Londonderry, Vermont (3)
 2A—Drake, Francis E. — Rye Beach, New Hampshire (1)
 2B—Eastman, Mrs. Frank E. — Ledyard, Connecticut (6)
 2C—Eaton, Mrs. G. W. — Sykesville, Pennsylvania (3)
 2D—Elitharp, Miss Marie — Watertown, New York (4)
 2E—Fast, Arthur, H. — Arlington (and Dunn Loring), Virginia (4)
 2F—Feldman, Albert E. — Kingston, New York (2)
 2G—Fenn, Roger C., — Concord, Massachusetts (1)
 2H—Fitzgerald, Mrs. Margaret A. — Amsterdam, New York (8)
 2I—Fluck, Paul H. — Lambertville, New Jersey (1)
 2J—Franklin, Mrs. Curtis — Mountain Lakes, New Jersey (1)
 2K—Graff, George S. — Berwick, Pennsylvania (2)
 2L—Gray, L. A. — Pointe Claire, Montreal, P. Quebec (2)
 2M—Haight, Mrs. Paul P. — Stanfordsville, New York (1)
 2N—Hammare, Mrs. Doris — Franklin, New Hampshire (2)
 2O—Harlow, Mrs. Hugh E. — Reading, Massachusetts (3)
 2P—Hebert, Mrs. R. C. — New Hampton, New Hampshire (2)
 2Q—Hinchman, Richard — Groton, Massachusetts (1)
 2R—Hitchner, J. George — Pitman, New Jersey (1)
 2S—Hoyt, Mrs. Southgate — Etna, New York (3)
 2T—Isham, Mrs. Mabelle — Battle Creek, Michigan (1)
 2U—Jenkins, Lloyd S. — Paxton, Massachusetts (1)
 2V—Johnson, Mrs. Lois — Mascoma, New Hampshire (1)
 2W—Kates, Howard A. W. — Montoursville, Pennsylvania (1)
 2X—Kennard, John H. — Bedford, New Hampshire (3)
 2Y—Lamb, Warren A. — Port Huron, Michigan (1)
 2Z—Larsen, Mrs. Roy E. — Fairfield, Connecticut (1)
 3A—Lee, Donald — Lakefield, Ontario (1)
 3B—Loery, Gordon — Morris, Connecticut (2)
 3C—Lof, Ruth A. — Storrs, Connecticut (1)
 3D—Marland, Lester R. — Ware, Massachusetts (8)
 3E—Matlack, Bennett K. — Pleasantville, New Jersey (1)
 3F—May, Mrs. Richard — Mansfield, Connecticut (1)
 3G—McAlister, Mrs. Alice — Enfield, New Hampshire (1)
 3H—McCamey, B. Franklin, Jr. — Storrs, Connecticut (2)
 3I—McDade, Harry C. — Hanover, New Hampshire (2)
 3J—McGregor, Eloise — Ellenburg Depot, New York (2)
 3K—McLane, John R. — Manchester, New Hampshire (1)
 3L—Moughamer, W. J. — Hollidaysburg, Pennsylvania (2)
 3M—Nash, Nathaniel C. — South Hamilton, Massachusetts (4)
 3N—Nichols, Albert R. — East Greenwich, Rhode Island (1)
 3O—Nodecker, Harmon — Oneida, New York (2)
 3P—Paine, Charles J. — Weston, Massachusetts (1)
 3Q—Parks, G. Hapgood — Hartford, Connecticut (5)
 3R—Parsons, Mrs. William N. — Herkimer, New York (1)
 3S—Pennsylvania Coop. Unit — State College, Pennsylvania (1)
 3T—Perkins, Miss Virginia — Bethel, Vermont (1)

- 3U—Pudelkiewiez, Walter — Storrs, Connecticut (2)
 3V—Quillian, Mrs. Helen — Barriefield, Ontario (1)
 3W—Radke, Mrs. Eleanor — East Chatham, New York (9)
 3X—Ramsdell, Mrs. George E. — Lewiston, Maine (1)
 3Y—Reed, Parker C. — Lexington, Massachusetts (6)
 3Z—Richards, C. Harold — Leaside, Toronto, Ontario (4)
 4A—Rockwood, Mrs. Cristobel S. — Conway, Massachusetts (2)
 4B—Romaine, Mrs. Lawrence B. — Middleboro, Massachusetts (2)
 4C—Rossman, V. C. — Blairstown, New Jersey (1)
 4D—St. Jacques, Normand — Burlington, Vermont (9)
 4E—Sander, Herman N. — Candia, New Hampshire (1)
 4F—Schmid, Fredrick C. — Lancaster, New Hampshire (1)
 4G—Scott, Frederic R. — Richmond, Virginia (1)
 4H—Shaub, Benjamin M. — Northampton, Massachusetts (2)
 4I—Smith, Fred E. — Athens, Pennsylvania (1)
 4J—Thompson, John L.—Rocky Mount, North Carolina (1)
 4K—Townsend, Mrs. Frank P. — Pompton Plains, New Jersey (1)
 4L—Verrill, R. M. — Bowdoinham, Maine (1)
 4M—Wade, Emily — Bedford, Massachusetts (1)
 4N—Washbourne, John L. — Peru, New York (5)
 4O—Werner, Mrs. Irma A. — Cumberland Mills, Maine (8)
 4P—Westcott, Bruce — Toronto, Ontario (1)
 4Q—Westcott, Peter W. — Amherst, Massachusetts (1)
 4R—Wilson, Stuart S., Jr. — Deposit, New York (15)
 4S—Wolf, Mark A. — Midland, Michigan (1)
 4T—Wood, Merrill — State College, Pennsylvania (1)
 4U—Hilyard, Robert — Bangor, Pennsylvania (placed attitional band on a bird
 which had already been banded by Maurice Broun.)

Table 2:—

Table 2 lists the eight different terminologies employed on flimsies to describe the places where and the methods by which recoveries of the birds were made.

Although we retain the wording found on the flimsies, information obtained directly from M. Brousseau indicates that methods of recovery *a* and *i* identify bands which were brought to him by other men. He reported the bands for them, but played no part in collecting them.

A lower-case code letter, for use in Table 3, precedes each expression.

TABLE 2. PLACE AND METHOD OF RECOVERY

- a—"At West Branch of Patapedia River near Lac Humqui, P. Quebec, Canada. No information as to how caught."
 b—"Killed by cat at 30-Mile Camp, Wanagan Branch."
 c—"Found dead in camp at 30-Mile Camp, Wanagan Branch, by fire warden."
 d—"Killed by Paul Boulanger at North Branch of the Kedgwick River in Rimouski county, P. Quebec, as reported by Mr. Brousseau."
 e—"Shot at West Branch of Patapedia River, Rimouski county, P. Quebec."
 f—"Killed at West Branch of Patapedia River, Rimouski county, P. Quebec."
 g—"Found in 39-Mile Camp on Patapedia River, took number and released."*
 h—"Trapped and released at 39-Mile Camp on Patapedia River."**
 *(These two bands are included on our "fishline bracelet" in Table 3.)
 i—(Information came to us on IBM card. M. Brousseau has supplied recovery dates and he explains that "these bands were received from boys on the Patapedia River, its Wanagan Branch, and its West Branch" where the birds were shot.)
 j—(No flimsie, nor IBM. Information obtained by personal correspondence with bander.)

Table 3:—

In Table 3 we have attempted to reveal the history of each one of the bands that constitute our three pieces of "jewelry". By using the code letters from Tables 1 and 2 we have sought to condense the story and still paint as accurate a picture as possible.

Table 3 includes the following bands:

	Species involved		Total Bands
	Evening Grosbeaks	Purple Finches	
(1) Watch chain	115	0	115
(2) Chain Bracelet	94*	0	95*
(3) Fishline Bracelet	60	2	62
			272

(*One male Evening Grosbeak carried two bands.)

Band numbers have been arranged numerically within the group found on each piece of "jewelry". As a result of this arrangement the final two bands are those removed from Purple Finches. All of the others for which we possess confirmatory evidence were removed from Evening Grosbeaks.

TABLE 3. HISTORIES OF THE BIRDS THAT DIED BECAUSE THEY WORE BANDS

(1) THE WATCH CHAIN (115 BANDS).						
Band No.	Age (When banded)	Sex	Banded		Recovered	
			By (Table 1)	At Date	Date	Method (Table 2)
50-155023	A	F	Y	10-13-57	07-05-60	a
-176997	I	M	3Q	01-19-56	06-23-60.	a
52-136203	A	M	3Y	02-08-53	06-23-60	a
-173097	A	M	3V	02-27-58	06-10-60	a
-186630	A	M	2L	01-31-60	06-11-60	a
786	A	M	2L	02-28-60	06-13-60	a
53-100103	A	M	4F	02-28-53	06-05-60	a
-104761	A	F	2V	03-26-54	06-27-60	a
-194057	A	F	C	03-01-58	06-11-60	a
54-133038	A	M	3Y	04-30-55	06-24-60	a
-153007	A	M	4N	01-09-56	07-07-60	a
-157054	A	M	D	03-01-60	07-04-60	a
-193311	A	F	4O	04-02-58	07-05-60	a
422	A	M	2X	12-23-55	06-25-60	a
-197352	A	F	R	04-21-60	07-07-60	a
-198346	A	F	3Q	02-19-56	06-24-60	a
55-102314	U	F	2S	01-23-56	06-23-60	a
-106539	U	F	P	02-04-56	06-24-60	a
-110337	A	M	P	01-19-59	07-26-60	a
-111976	A	M	4N	04-19-56	06-04-61	i
-128162	A	F	4D	02-06-59	07-11-60	a
-129715	U	M	3Q	04-30-58	06-26-60	a
-140872	U	M	3D	12-14-58	06-26-60	a
876	U	F	3D	12-15-58	07-14-60	a
-146180	A	M	2O	01-24-59	07-01-60	a
56-135435	A	M	4D	02-13-59	06-06-60	a
-138305	A	F	4K	01-18-58	06-23-60	a
-139446	A	M	3O	04-30-58	06-05-60	a
-157952	A	M	2H	04-29-58	06-11-60	a

-158146	A	M	2H	05-06-58	07-13-60	a
-160596	A	M	2B	01-13-59	06-27-60	a
-162201	A	M	2F	12-25-57	06-13-60	a
-169007	U	M	E	01-18-60	06-13-60	a
021	A	M	E	01-20-60	06-14-60	a
694	A	F	4N	12-02-59	06-26-60	a
-174997	A	F	4O	01-07-59	06-27-60	a
-175377	A	M	4R	01-20-58	06-14-60	a
895	U	M	Q	02-23-58	?	j
-177934	A	F	D	03-12-60	06-17-60	a
-179831	A	M	4D	02-18-59	06-23-60	a
-183793	A	M	2D	02-08-58	07-04-60	a
-185394	U	M	K	03-27-58	07-22-61	i
-186210	A	M	H	02-13-58	06-13-60	a
272	A	F	H	02-16-58	06-26-60	a
-187615	A	M	3W	01-11-59	06-27-60	a
-188077	A	F	2K	12-05-59	06-27-60	a
-197313	A	M	4R	05-07-58	06-23-60	a
352	A	M	4R	05-09-58	06-27-60	a
57-105636	A	F	3Z	01-30-60	07-12-60	a
655	A	F	3Z	02-07-60	07-31-61	i
-110263	A	M	H	03-24-59	06-28-60	a
491	A	F	H	12-01-59	07-21-61	i
-116793	?		2R	?	?	j
-119143	A	F	J	05-05-58	06-26-60	a
-135384	U	F	4R	01-22-59	07-02-60	a
-141731	U	F	2S	01-27-59	07-06-60	a
-148841	A	F	3L	03-04-60	06-23-60	a
885	U	M	3L	03-26-60	06-10-60	a
-162257	A	M	4R	01-20-60	06-24-60	a
-167249	A	M	2C	03-22-60	06-13-60	a
-170605	A	M	2P	01-18-59	06-13-60	a
-184240	U	M	4R	12-09-59	06-14-60	a
248	U	M	4R	12-10-59	06-12-60	a
-185622	A	F	3W	02-19-59	06-26-60	a
-188218	U	F	3D	03-03-59	07-30-61	i
339	U	F	3D	03-28-59	06-12-60	a
413	?		2N	03-27-59	06-26-60	a
-190606	A	M	Q	02-21-59	06-13-60	a
-191035	A	M	2D	03-01-59	06-12-60	a
-196434	A	M	3W	02-15-60	06-26-60	a
-198649	U	F	3H	03-27-59	06-23-60	a
-199175	?		Q	03-19-59	06-25-60	a
891	U	F	3M	01-31-60	07-23-61	i
58-100174	A	F	4D	02-27-60	06-23-60	j
-113898	?		L	03-08-60	?	J
-131361	A	M	3B	01-02-60	06-10-60	a
405	A	M	3B	02-15-60	06-05-60	a
670	A	M	3U	01-08-60	06-10-60	a
-140885	U	M	A	12-31-59	06-27-60	a
-149725	A	M	4Q	01-28-60	06-10-60	a
-159573	A	M	F	02-11-60	07-07-60	a
-162943	A	F	I	12-08-59	08-01-61	i
-170811	A	M	2U	01-10-60	06-17-60	a
-175553	A	M	2E	01-17-60	06-24-60	a
771	A	M	2E	04-14-60	06-23-60	b
-191054	A	F	F	03-17-60	06-11-60	a
057	A	M	F	03-17-60	06-11-60	a
-196923	A	M	H	01-15-60	06-14-60	a
-199671	A	F	I	04-14-60	06-27-60	a
797	A	F	I	04-19-60	06-27-60	a
919	A	M	I	04-25-60	06-27-60	a
59-105229	A	M	H	01-20-60	06-27-60	a
304	A	F	H	01-20-60	06-23-60	a

322	A	M	H	01-20-60	06-26-60	a
405	A	M	H	01-20-60	06-10-60	a
-106237	A	M	H	02-18-60	06-13-60	a
929	A	M	H	02-26-60	06-10-60	a
-117305	A	M	Q	01-30-60	06-26-60	a
577	A	F	Q	02-21-60	07-09-60	a
-118769	A	M	3M	03-06-60	06-15-60	a
-124939	A	M	4J	04-12-60	06-10-60	a
-127060	A	M	Q	03-21-60	06-23-60	a
347	A	M	Q	04-23-60	06-16-60	a
379	A	M	Q	04-26-60	06-13-60	c
-130218	U	M	2S	04-05-60	06-11-60	a
-137961	A	F	2C	03-18-60	06-26-60	a
-139273	A	M	2E	04-01-60	06-06-60	a
502-12894	U	M	M	01-31-55	06-10-60	a
512-43515	U	M	2G	04-30-56	06-26-61	j
522-09881	U	F	S	02-26-56	07-21-61	i
-30300	U	M	2Q	02-07-59	06-13-60	a
532-62057	A	M	4C	01-14-58	07-16-60	a
-90518	A	M	3G	12-31-58	06-14-60	a
542-00419	A	M	Y	04-10-58	?	j
572-02885	A	M	3R	02-10-60	06-12-60	a

TABLE 3 (Continued). (2) THE METAL CHAIN BRACELET (95 BANDS).

Band No.	Age	Sex (When banded)	Banded By and At (Table 1)	Date	Recovered Date	Method (Table 2)
50-174226	A	M	B	02-08-53	07-02-59	e
-188441	A	M	3X	03-07-53	07-13-59	e
-189787*	A	M	K	12-31-55	07-12-59	e
52-147985	A	F	4O	03-16-55	07-11-59	e
-148791	U	F	4H	01-29-56	07-11-59	e
851	U	F	4H	02-03-56	07-16-59	f
-193300	A	M	3Z	03-07-59	08-09-59	f
53-122558	U	F	3N	02-12-56	07-18-59	d
-146326	A	M	O	12-07-55	07-06-59	d
942	A	M	O	01-13-59	07-02-59	e
-172680	A	F	3P	04-18-58	07-24-59	f
-189677	A	M	N	03-15-56	07-31-59	f
54-133221	U	M	3Y	12-31-55	07-12-59	e
-147847**	A	M	2T	04-03-58	07-04-59	d
-152154	A	F	4E	02-08-58	07-27-59	f
-189574	U	F	2O	01-14-56	07-08-59	e
-198767	U	M	3Q	03-23-56	07-12-59	d
55-104673	A	M	2B	01-29-56	07-06-59	d
-109247	A	M	2H	03-04-56	07-06-59	e
868	?		2H	04-15-58	07-09-59	d
-111222	A	M	2W	01-29-56	07-19-59	f
-118238	A	F	4I	02-04-58	07-23-59	d
-119961	A	M	H	01-27-58	07-07-59	e
-120825	A	M	4S	01-28-58	07-27-59	e
-124198	A	M	2N	01-08-59	07-22-59	f
-128151	A	M	4D	02-05-59	07-15-59	f
-129391	U	F	3Q	12-24-58	07-13-59	e
-137376	A	M	B	12-28-58	07-12-59	d
-140835	U	M	3D	05-08-58	07-07-59	e
-141144	A	M	3O	04-03-58	07-13-59	e
-146147	A	F	2O	01-11-59	07-08-59	d
-151522	A	F	3Y	01-25-59	08-09-59	f
847	A	F	3Y	03-08-59	08-01-59	j
-184413	A	M	3U	01-23-59	07-06-59	e

-186692	A	F	E	01-16-59	07-21-59	d
-192037	U	F	4G	02-25-58	07-24-59	f
56-135471	A	M	4D	02-13-59	07-07-59	d
556	A	M	4D	02-15-59	07-19-59	f
-137263	A	M	4B	12-18-57	07-11-59	d
-153524	A	F	3I	03-13-58	07-25-59	f
557		?	3I	05-12-58	07-09-59	d
-158006	A	M	2H	05-01-58	07-06-59	e
018	A	M	2H	05-02-58	07-25-59	f
274	A	M	2H	05-08-58	07-07-59	e
-162208	A	M	2F	02-16-58	07-07-59	d
-164942	A	F	2X	12-14-58	07-10-59	e
-165924	A	M	3H	01-28-59	07-29-59	f
-173925	A	U	2I	02-25-58	07-01-59	e
-175341	A	M	4R	01-12-58	07-02-59	e
455	A	M	4R	01-30-58	07-06-59	d
-179464	A	F	4T	01-17-58	07-31-59	f
-181227	A	M	H	01-28-58	07-23-59	f
-184175	A	M	3M	03-11-57	07-13-59	e
-185014	U	F	K	02-10-58	07-09-59	d
539	U	F	K	03-21-59	07-10-59	j
557	U	M	K	03-30-59	07-10-59	e
-186199	A	M	H	02-13-58	07-05-59	e
-187693	A	F	3W	01-19-59	07-16-59	f
-188003	A	F	2K	02-14-58	07-14-59	d
-189197	A	F	4B	01-13-59	?- ?-59	j
-197150	A	F	4R	04-19-58	07-07-59	e
335	A	M	4R	05-08-58	07-07-59	d
-199878		?	G	01-20-59	07-16-59	d
57-110101	A	M	H	02-04-59	07-11-59	e
233	A	M	H	03-14-59	07-12-59	e
-117604	A	M	3F	02-25-59	07-08-59	e
973	A	F	3T	02-22-59	07-03-59	e
-118001*	A	M	4U	04-27-58	07-12-59	e
-122010	I	M	Z	05-22-58	07-06-59	d
215	I	F	Z	12-17-58	07-10-59	e
-124542	A	M	B	01-24-59	07-08-59	d
570	A	F	B	01-31-59	07-24-59	f
-135976	U	U	4L	12-20-58	07-05-59	e
-162660	A	F	Z	03-05-59	08-03-59	f
-170675	A	M	2P	03-26-59	07-09-59	d
-173757	A	M	O	01-20-59	07-08-59	d
-175040	A	M	2X	02-23-59	07-11-59	d
-178139	U	F	T	02-05-59	08-02-59	f
-181307	A	F	4O	01-31-59	07-07-59	d
888	A	F	2B	02-14-59	07-24-59	f
955	A	F	2B	02-18-59	08-03-59	f
-183603	A	F	4R	01-26-59	?- ?-59	j
632	A	M	4R	01-29-59	07-06-59	e
700	A	M	4R	02-09-59	07-06-59	e
-185594	A	F	3W	02-15-59	07-11-59	j
637	A	F	3W	02-22-59	07-19-59	f
-186622	A	M	I	03-04-59	07-07-59	e
-188126	U	F	3D	02-11-59	07-31-59	f
-191428	A	F	2B	03-13-59	08-02-59	f
-193421	A	F	4D	02-24-59	08-02-59	j
-199716	U	M	3M	03-15-59	07-13-59	d
58-107333	A	F	Q	03-29-59	07-19-59	f
512-46922	A	M	4A	12-07-55	07-20-59	f
923	A	M	4A	12-07-55	07-10-59	d
522-77484	U	F	2A	11-27-55	07-05-59	d

*These two bands (50-189787 and 57-118001) were both on the same bird.

**No. 54-147847 was accompanied by an unnumbered, red-anodized band.

TABLE 3 (Continued). (3) THE FISHLINE BRACELET (62 bands).

Band No.	Age When (banded)	Sex	Banded By and At (Table 1)	Date	Recovered Date	Method (Table 2)
53-102985	A	F	3Y	04-23-55	06-27-61	i
55-137271	A	M	B	01-12-58	07-26-60	a
392	A	F	B	01-08-59	07-04-61	i
56-114127	U	M	3K	?	06-29-61	j
-138733	A	F	U	05-25-60	07-16-60	a
-153178	A	F	2Z	12-03-57	07-14-61	i
654	A	M	T	12-24-57	06-23-61	i
-157938	A	F	2H	04-26-58	07-23-61	i
-169067	A	F	E	01-27-60	07-06-61	i
684	U	M	4N	11-27-59	07-01-61	i
-174248	A	M	W	01-19-59	07-03-61	i
-193352	U	M	3E	04-05-60	06-25-61	i
57-106894	A	M	3A	02-09-60	07-03-61	i
-107136	A	M	L	01-13-60	06-28-61	i
635	A	F	4P	03-10-60	06-29-61	i
-110115	A	M	H	02-11-59	07-17-61	i
-114993	U	F	2J	01-30-61	07-01-61	i
-123356	U	F	4M	12-28-58	07-08-61	i
-141233	A	M	2D	02-07-59	03-27-61	i
-167170	A	F	2C	01-28-60	06-27-61	i
-173213	U	M	3D	01-20-59	06-25-61	i
-174464	A	F	O	12-15-59	07-22-61	i
-177048	A	F	O	01-15-60	06-25-61	i
615	U	M	G	10-08-59	06-27-61	i
-181063	A	F	3W	01-27-59	07-15-61	i
095	A	F	3W	01-29-59	07-17-61	i
-184585	U	M	4R	12-26-59	07-24-61	i
-187960	U	F	3D	01-29-59	07-15-61	i
-191262	A	M	2B	02-25-59	?	j
-193468	A	M	4D	03-13-59	07-05-61	j
-196400	U	M	3W	01-15-60	07-21-61	i
-197454	U	F	3J	01-02-60	07-07-61	i
58-105329	A	M	I	03-27-59	06-29-61	i
-107396	A	F	Q	04-03-59	07-19-61	i
-108335	A	M	4O	04-21-59	07-03-61	i
-114030	A	M	L	03-18-60	07-26-60	a
244	A	F	3Z	03-19-60	07-17-61	i
-142342	U	M	4O	12-15-59	06-29-61	i
-149989	U	F	3C	04-28-60	07-15-61	i
-174781	A	F	2Y	04-29-60	07-05-61	i
-175684	A	M	2E	02-14-60	06-26-61	i
-196144		?	H	12-23-59	06-29-61	i
-197477	A	M	3S	02-21-60	06-20-61	i
-198102	A	F	4N	03-12-60	07-22-61	i
-199283	A	F	I	02-28-60	07-04-61	i
59-104011	A	M	G	01-01-60	07-21-61	i
-105116	A	F	H	01-19-60	07-07-61	i
754	A	M	H	01-30-60	06-29-61	i
-107148	A	F	H	03-03-60	07-12-61	i
-116721	U	F	X	01-24-60	08-01-61	i
-126917	A	M	V	02-26-60	06-25-61	i
-127056	A	M	Q	03-21-60	07-21-61	i
081	A	F	Q	03-25-60	07-22-61	i
210	A	M	Q	04-11-60	06-25-61	i
-129088	A	F	2D	03-14-60	07-26-60	a
-140238	A	F	H	04-15-60	07-24-61	i
-146174	A	M	4O	04-11-61	06-26-61	i
-165355	A	M	I	02-12-61	06-27-61	i

987	A	F	I	04-23-61	07-16-61	i
-174044	A	M	3J	03-10-61	06-27-61	i
62-52600	A	U	4O	03-03-60	06-20-60	g
-57139	A	F	2M	04-09-60	07-10-60	h

Some Band-less Flimsies:—

Although the story of the bands in our watch chain and bracelets has now been told a few birds and banders still remain that must be included before we can consider our report to be complete. These records involve flimsies in the pile supplied to us by M. Brousseau which confirm the reporting of other bands than those already discussed. The bands which brought death to these additional birds are not in our possession, however.

Two more banders are involved here, namely:

- 4V — Bennett, Charles H. — Ottawa, Ontario (1)
- 4W — Pepper, William — Philadelphia, Pennsylvania (1)

The first six bands included in this supplementary list are from dead Evening Grosbeaks; the final one is from a Purple Finch. We shall employ the same system as in Table 3 to tell their story, as follows:

53-102327	A	F	3Y	04-12-53	07-24-58	e
54-123603	A	M	Z	03-30-56	07-18-58	e
55-110371	A	M	P	01-23-59	06-23-59	e
56-181647	A	M	H	02-04-58	06-26-59	e
58-195810	A	F	Q	01-10-60	06-24-60	a
502-83094	?	4V		02-28-56	06-22-59	e
59-47892	A	F	4W	04-04-58	07-12-59	e

Discussion:—

We are now able to see the total picture as concerns the killing of birds in the Rimouski county region of Quebec to obtain their bands. The number of birds killed for this purpose during each of the years covered by our data is:

1958	1959	1960	1961	Date Unknown	(Bands Otherwise Obtained)
2	98	105	64	5	(4)

It appears that the first bird to have been shot by our misguided, but well-intentioned, "cooperators" was an adult male Evening Grosbeak, No. 54-123603. He had been banded on March 30, 1956 by Mrs. James R. Downs at South Londonderry, Vermont, and he lived until his band made him a .22 caliber slug on the West Branch of the Patapedia River, July 18, 1958. Six days later adult female 53-102327 was shot. She had been banded on April 12, 1953 at Lexington, Massachusetts, by Parker C. Reed.

The real carnage began with the arrival of the birds at their nesting grounds in June, 1959, and was repeated without restraint dur-

ing the 1960 breeding season. These same two years witnessed a crescendo in the reaction from ornithological groups as news of the slaughter spread through the medium of banding records. Banders wrote letters to the men on the firing line, papers were published in ornithological bulletins, Canadian ornithologists took action, Canadian Wildlife Service authorities intervened. That this aggregate reaction had a desirable effect is witnessed by the decline in the number of bands reported in 1961. When we visited the region in June, 1962, we found evidence of an awakened comprehension regarding the purpose of the banding process. It is safe to report, we feel, that the killing of birds in the Patapedia River region has essentially ceased, but, until such time as other remote areas can be visited and the residents "educated" similarly, some shooting of the birds will continue.

Much as we might have preferred to obtain the facts by more humane methods the data which compose our Table 3 afford us an opportunity to study many examples of flock cohesion as the birds moved from the banders' feeding stations to their deaths on their nesting grounds. We shall not add to this voluminous report by doing so here, but any interested reader will find many occasions which attest to the flock tenacity of this species.

Analysis of Table 3 shows that the sex ratio of the 275 Evening Grosbeaks is 157 males to 107 females with 11 individuals unsexed because of incomplete information or disagreement between the reports of bander and collector.

Further examination of the table reveals that the birds were killed during the most active part of the June-July nesting season. We summarize this significant situation in Table 4, which follows:

TABLE 4. DISTRIBUTION OF DATES EVENING GROSBEEKS WERE SHOT.

	1958			1959			1960			1961		
	Jun	Jul	Aug									
Males		1		2	49	1	59	10		19	11	
Females		1			30	7	23	11		4	27	2
Sex Unknown				1	5		2			1		
Totals:												
Monthly	0	2	0	3	84	8	84	21	0	24	38	2
Yearly		2			95			105			64	

Excluded from the above picture by the absence of sufficiently precise information are 3 males, 2 females, and 2 other individuals of unrecorded sex. Two additional bands were collected from Evening Grosbeaks that had not been *shot*.

The 101 banders included in our study conducted stations in 14 states and 2 Canadian provinces. In order of the number of stations involved, these are: Massachusetts (18); New York (15); Pennsylvania (12); New Hampshire (11); Connecticut (9); New Jersey (8); Ontario (7); Vermont (6); Maine (4); Michigan (3); 2, each, in North Carolina and Virginia; and 1, each, in Maryland, Quebec, Rhode Island, and Wisconsin.

Should we plot these locations on a map the result would almost duplicate Shaub's Fig. 1 (1960). Such a map provides a visual impression of our Evening Grosbeaks' range, modified, of course, by the unequal dispersal of banders, and reporting collectors, within that range.

Summary:—

This study has examined the records of 278 birds (275 Evening Grosbeaks and 3 Purple Finches).

Our records indicate that 4 of these birds were not shot. Of the remaining 274, a few may have been victims of sprayed insecticides, but it is certain that nearly all of them were deliberately killed to get the bands they wore.

These birds were banded by 101 banders in 14 states and 2 Canadian provinces during the winter flights of 1952-'53 through 1960-'61. Then they converged upon their nesting grounds in Quebec's Rimouski county only to be shot because they wore the bands. The shooting was done, innocently enough, during the months of June, July, and August of 1958 through 1961, by misinformed residents of the region.

Fortunately, this unpleasant situation has been curbed, but it has not yet been completely eradicated.

Acknowledgements:—

Compilation of the foregoing data would have been impossible without the efficient assistance we received from personnel at the Bird Banding Laboratory in Laurel, Maryland.

We appreciate, too, the cooperation of the several banders who responded so generously to our appeals for confirmatory records. And we are particularly indebted to M. Thomas Brousseau for supplying the material which has afforded us the opportunity to analyze a confused situation in such a manner, we trust, that an equally unhappy page in the history of bird-banding need never again be written.

Addendum:—

As we drop the curtain on this story a new chapter is born.

The mail has just brought to us a new consignment of 27 bands from the Rimouski county region. They had been collected in the Kedgwick River area of that county. When we examined them we recognized 14 in the group as having been among those we had placed on Evening Grosbeaks at 39-Mile Camp on the Patapedia River during the eleven days just prior to the DDT shower of last June 28 (Parks, 1963). In fact, this entire new batch of bands had been removed from dead Evening Grosbeaks, but how many of the birds had died as the result of the sprayed insecticide and how many had been shot we do not know. Unfortunately, the information which accompanies the bands is lacking in specific detail.

Thanks, again, to the efficient Bird Banding Laboratory personnel we are able to append this final chapter. First, it is necessary to add 5 new stations to our list:

- 4X— Bengel, Russell — Williamsburg, Michigan (1)
 4Y— Conway, Albert E. — Westchester, Pennsylvania (1)
 4Z— Cottrell, M. S. — Millville, New Jersey (1)
 5A— Johnson, Daniel — Lynnfield Center, Massachusetts (1)
 5B— Parks, Mr. and Mrs. G. H. — 39-Mile Camp, Patapedia
 River, Rimouski County, Quebec (14)

Now we shall employ the pattern of Table 3 once more to bring our story as completely up to date as available data permits.

52-195305	A	M	5B	06-15-62	07- ?-62	"found dead"
306	A	F	5B	06-15-62	"	"
317	A	M	5B	06-16-62	"	"
321	A	M	5B	06-16-62	"	"
323	A	M	5B	06-16-62	"	"
329	A	F	5B	06-16-62	"	"
330	U	M	5B	06-16-62	"	"
344	A	M	5B	06-17-62	"	"
426	U	F	5B	06-19-62	"	"
450	S	M	5B	06-20-62	"	"
458	A	M	5B	06-20-62	"	"
505	A	M	5B	06-21-62	"	"
683	A	M	5B	06-24-62	"	"
757	A	M	5B	06-25-62	"	"
55-117967	U	M	2S	03-14-56	"	"
-137696	U	F	5A	02-23-59	"	"
57-191971	A	F	2B	01-24-61	"	"
58-136884	A	M	4Z	02-27-60	"	"
59-105549	A	F	H	01-22-60	"	"
-123024	A	M	O	05-01-61	"	"
-140707	A	M	H	12-08-61	"	"
-165683	A	M	I	03-30-61	"	"
60-114381	U	F	3S	12-28-61	"	"
-180545	A	M	3O	05-01-62	"	"
62-146438	A	M	K	01-16-62	"	"
582-53730	U	U	4X	12-28-61	"	"
592-41298	*	*	4Y	*	"	"

(*Banding data not yet available.)

References.—

Shaub, B. M. 1960. The destruction of nearly one hundred evening grosbeaks at St. Leon le Grand, Quebec. *Bird-Banding*, **31**(3): 150-156.

Parks, G. H. and Parks, H. C. 1963. Some notes on a trip to an evening grosbeak nesting area. *Bird-Banding*, **34**(1): 22-30.

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