SOME RETURNS OF BLACKBIRDS AND STARLINGS By H.E. Burtt

We have been operating a decoy trap on the University Farm in Columbus, Ohio since 1963 and, prior to that, some "back-yard" traps a half mile distant. The catch has been primarily Brown-headed Cowbirds (Molothrus ater), Common Grackles (Quiscalus quiscula), Redwinged Blackbirds (Agelaius phoeniceus) and Starlings (Sturnus vulgaris). Data have been presented elsewhere (Burtt and Giltz 1969, Burtt and Giltz 1970) on the comparative tendency of the four species to return to the trap (after 90 days). The majority of the returns are in the year when the birds are banded or in the first subsequent year. It seems worthwhile to analyze the cases of return after longer intervals.

Table 1 includes birds that returned four or more years after banding. The column headings are self explanatory. The age is given in years and months. There are 27 birds in this older cateogory. This is not too impressive in comparison with the 119,094 birds banded in the nine year period 1964-1972 and the roughly 1000 birds that returned after 90 or more days. These long-lived birds obviously are at the far end of the distribution. But it is profitable to approximate the limits of the distributions.

Especial note should be taken of the first entry in the table—a Cowbird that lived at least 9 years and 1 month. This may be a "record". According to the compilation in EBBA News for February 1973 the oldest Cowbird noted previously was aged 7 years 10 months. Another of our Cowbirds lived 7 years and so did one Grackle. Our oldest Red-wing was 6 years.

These figrues are, of course, conservative. For instance, the first Cowbird in the table must have hatched several months before his October banding and may even have been hatched the preceding year so he lived almost certainly $9\frac{1}{2}$ years and quite possibly $10\frac{1}{2}$.

The four species evidently differ in the tendency to have long-lived members. The first column of Table 2 indicates the number of each species that appears in Table 1, i.e. the number returning after four or more years. Obviously old Cowbirds and Grackles predominate. A larger table (not shown) analyzed all the returns after two or more years. The results of this tabulation appear in the second column. For example 50 Cowbirds returned after two or more years as against 10 returning after four or more years. The two-year group yields a larger sample and perhaps is a more reliable indicator of species differences in this tendency to return.

The Grackles obviously have the largest number of "old" birds and the Starlings the least. However, these figures should be considered with reference to the number of birds available to return, i.e. the number banded. The third column gives the number of each species banded in the nine year period. Now the trend is clearer. The Grackles with the smallest number banded have the largest number of oldsters, while the Starlings with the largest number banded have the smallest number of oldsters.

To show the tendency still more clearly the figures in the second column are reduced to percents of the total 173 and these percents appear in the fourth column. Similarly the numbers banded are reduced to percents which appear in the last column. Now we can note that only 11% of the banded birds are Grackles but that 48% of the birds returning after two years are Grackles. On the other hand 32% of the banded birds are Starlings but only 5% of the birds returning after two years are Starlings.

Another variable may be involved to some extent in these results, viz. species differences in the tendency to return to the trap regardless of age. We have discussed elsewhere (Burtt and Giltz 1970) an attachment to or orientation toward a particular place, such as a trap area, on the part of Grackles. This is termed topophilia. It was noted that Grackles do proportionately more repeating (less than 90 days) than do the other species. Also some 70% of Grackle recoveries are local, i.e. within the city limits of Columbus, whereas for Red-wings and Starlings the figure is around 30% and for Cowbirds even less. The present data provide still further evidence of Grackle topophilia. However, the apparent difference in longevity shown in Table 2 are so pronounced that it is very doubtful if they are invalidated by this variable.

References

Burtt, H.E. and M.L. Giltz. 1969. Analysis of 958 Blackbird Recoveries. Wheaton Club Bulletin, vol 14, pp. 1-9

Burtt, H.E. and M.L. Giltz. 1970. Topophilia in Grackles. Inland Bird Banding News, vol. 42, pp. 203-205

TABLE 1
Returns After Four Years or More

EBBA NEWS

		Band number	Date banded	Date returned	Age years/months
Cowbird	ð	65-123180	10-13-63	11-3-72	9/1
"	ð	65-123240	10-15-63	3-23-71	7/5
11	3	65-125328	10-28-63	7-29-68	4/9
	đ	66-101715	7-31-64	8-3-69	5/0
	ð	66-104430	9-28-64	11-12-68	4/2
	ð	68-161472	8-10-68	10-11-72	4/2
11	3	68-178351	8-26-65	10-25-70	5/2
111	ð	68-178736	10-17-65	10-5-70	5/0
	ð	70-150789	5-23-66	10-14-70	4/5
	ð	70-151247	10-31-66	7-15-72	5/9
Grackle	•	683-88946	5-1-63	6-6-67	4/1
"		773-55283	6-21-65	7-11-70	5/1
**		773-97457	8-9-65	5-7-70	4/9
н		773-97483	8-22-65	5-8-72	2/9
20		773-97822	5-13-66	10-17-70	4/5
		773-99796	5-23-67	6-19-71	4/1
**		843-23743	6-6-68	3-9-73	14/9
11		843-23760	6-7-68	6-4-72	4/0
**		843-24047	6-23-68	7-9-72	4/1
Red-wing	ð	602-49874	7-5-62	7-27-68	6/0
Hed-MINE	đ	652-61786	4-4-64	4-21-68	4/0
"	ð	652-61956	5-14-64	7-24-68	11/2
11	đ	same bird	J-14-04	5-1-69	5/0
"	ð	682-67046	4-20-68	5-6-72	11./7
	ð	682-87531	8-2-65	11-13-69	11/3
Ctowline	0	682-75323	6-21-65	11-19-70	5/5
Starling		732-64060	7-7-68	12-1-72	11.15
**		732-64242	7-10-68	12-1-72	4/5

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	No. returning after 4 years	No. returning after 2 years	No. banded	% return- ing after 2 years	% banded
Cowbird	10	50	36,702	29	31
Grackle	9	83	12,977	48	11
Red-wing	5	31	31,409	18	25
Starling		9	38,006	5	32
	27	173	119.094		

Returns After 2 Years or More

Species		Band	Banded	Returned	Age
Cowbird	3	65-123088	10-11-63	10-20-65	2/0 9/1
**	රී රී	65-123180	10-13-63	11-3-72	7/1
11		65-123240	10 - 15-63 10-28-63	3-23-71 7-29-68	7/5 4/9
**	ඊ ී	65-125328 66-101440	6-4-64	5-28-68	3/11
11	o ð	66-101443	7-5-64	7-14-66	2/0
immature	0	00-101-47	7-5-04	7-14-00	2/0
Cowbird	ਰੌ	66-101715	7-31-64	8-3-69	5/0
" "	ð	66-101741	8-1-64	8-24-64	2/0
11	B	66-104430	9-28-64	11-12-68	4/2
100	Ŷ.	68-161008	5-7-68	4-30-71	2/11
11	ð	68-161432	7-31-68	7-8-72	3/11
	ð	68-161465	8-10-68	10-10-70	2/2
11	ਰ	68-161472	8-10-68	10-11-72	4/2
"	ð	68-161820	11-1-68	11-16-70	2/0
**	ð	68-162870	11-5-68	4-10-71	2/5
**	₫	68-170956	7-7-65	5-13-68	2/10
31	ð	68-176975	7-22-65	8-3-67	2/1
**	φ	68-177005	7-22-65	4-29-68	2/9
11	₫	68-178351	8-26-65	10-25-70	5/2
,11	ð	68-178736	10-17-65	10-5-70	5/0
11	ð	70-150676	4-6-66	5-29-69	3/1
"	ð	70-150771	4-27-66	7-21-69	3/3
**	3	70-150789	5-23-66	10-14-70	4/5
	ð	70-151144	10-17-66	8-3-69	2/10
"	ð	70-151247	10-31-66	7-15-72	5/9
	ð	70-151686	4-3-67	11-29-70	3/,7
"	ð	70-151722	6-29-67	4-30-71	3/10
"	ð	70-151761	7-4-67	4-6-71	3/9

Species		Band	Banded	Returned	Age
Cowbird	ð	70-151805	7-7-67	7-19-70	3/0
1,5,5)	ð	70-194435	3-17-69	10-21-72	3/7
11	ð	70-194628	3-25-69	3-31-72	3/0
71	ð	70-194714	3-27-69	7-29-72	3/4
11	3	70-194740	3-27-69	4-12-72	3/1
92	3	70-194758	3-27-69	10-7-72	3/7
17	3	70-193770	1-29-69	1-2-71	2/0
11	ਰ	70-194533	3-23-67	7-14-70	3/14
11	ð	72-101117	5-15-69	4-6-72	2/11
17	ð	72-101588	7-21-69		
**	ð	72-101701	7-24-69	10-28-72	3/3
11				11-8-72	3/4
11	ð	72-101879	7-27-69	7-25-71	2/0
	ර	72-102027	8-3-69	7-30-72	2/11
11	2	72-102171	8-5-69	10-8-72	3/2
11	ð	72-102279	8-11-69	7-7-72	2/11
11	♂	72-103943	10-20-69	3-16-72	2/5
11.	♂	72-107058	4-30-70	7-3-72	2/3
11	ð	72-107521	7-13-70	9-9-72	2/2
37	ਰ	72-180079	7-25-70	8-12-72	2/1
11	đ	72-1 0 8083	7-25-70	7-30-72	
11	ð	72-108318	9-19-70		2/0
11			- 1800 ALCON	9-3-72	2/0
	♂	72-127474	10-23-70	10-28-72	2/0

Returns After 2 Years or More

Species	Band	Banded	Returned	Age
Grackle	543-52858	4-23-56	4-24-59	3/0
11	543-52879	5-3-57	5-19-59	2/0
11	543-52898	5-3-57	6-2-59	2/1
**	583-20625	4-2-58	5-24-60	2/1
11	583-20700	5-6-60	5-16-63	3/0
71	583-20705	5-24-60	5-30-62	2/0
11	583-20713	6-18-60	5-16-63	2/11
11	583-20775	5-30-62	6-22-65	3/1
11	683-88946	5-1-63	6-6-67	4/1
11	743-94837	5-21-64	10-25-66	2/5
11	743-94842	5-21-64	6-20-66	2/1
11	773-55283	6-21-65	6-9-67	2/1
11	Same Bird	11	7-11-70	5/1
10	773-55287	6-21-65	6-23-68	3/0
11	773-55299	6-21-65	7-12-68	3/1
	773-55317	6-21-65	6-24-68	3/0
11	773-55376	6-24-65	6-9-67	2/0

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Species	Band	Banded	Returned	Age
Grackle	773-97057 773-97457 Same Bird 773-97483 773-97720 773-97782 773-97822 773-97822 773-97827 773-97827 773-97930 773-97935 773-97935 773-99016 773-99027 773-99147 773-99157 773-99157 773-99622 773-99622 773-99624 773-99624 773-99726 773-99726 773-99883 773-99780 773-99883	7-2-65 8-9-65 " 8-22-65 5-12-66 5-13-66 5-13-66 5-13-66 6-6-66 6-6-66 6-22-66 6-22-66 7-11-66 7-13-66 8-15-66 9-21-66 4-29-67 4-29-67 5-14-67 5-15-67 5-16-67 5-23-67 6-2-	3-18-69 6-25-68 5-7-70 5-8-72 6-13-69 6-3-69 6-3-69 6-17-70 6-13-69 4-29-69 6-16-69 6-24-68 3-24-69 5-7-70 7-6-69 6-19-70 6-22-69 6-19-71 6-15-71 7-2-72 6-21-71 6-15-71 7-2-72 6-21-70 6-23-71 6-15-70	3/8 2/9 6/9 3/1 2/0 3/1 3/0 2/0 3/1 2/0 3/1 2/0 2/0 2/1 3/1 2/0 2/0 2/1 3/1 2/0 3/1 2/0 2/1 3/1 2/0 3/1 2/1 2/0 2/1 2/1 2/1 2/1 2/1 2/1 2/1 2/1 2/1 2/1
**	843-23634	5-7-68	7-24-70	2/2

Species		Band	Banded	Returned	Age
Grackle		843-23743	6-6-68	3-9-73	4/9
"		843-23760	6-7-68	6-4-72	4/0
		843-23906	6-23-68	6-8-70	2/0
100		843-23907	6-23-68	6-12-70	2/0
n		843-23911	6-23-68	6-12-70	2/0
**		843-24047	6-23-68	7-9-72	4/1
STE.		843-24316	6-28-68	6-12-70	2/0
11		843-24346	6-29-68	7-18-72	4/1
**		843-24391	6-30-68	7-10-70	2/1
.11		843-24482	7-2-68	5-8-72	3/10
311		873-31930	8-14-68	5-28-71	2/9
**		873-47306	4-12-69	6-20-72	3/2
**		873-47380	4-24-69	4-16-71	2/0
***		873-47503	5-2-69	6-24-72	3/1
111		873-47572	5-9-69	6-17-72	3/1
•		873-47619	5-12-69	4-30-72	2/11
**		873-47668	5-18-69	6-23-72	3/1
11		873-47737	5-24-69	6-27-72	3/1
		873-47744	5-24-69	5-18-72	3/0
		873-47847	6-2-69	6-2-72	3/0
		873-48000	6-26-69	6-18-72	3/0
:11		1113-36567	7-22-69	5-23-72	2/10
**		1113-37172	5-8-70	6-20-72	2/1
11		1113-37203	5-16-70	6-18-72	2/1
**		1113-37351	5-29-70	6-17-72	2/1
111		1113-37372	5-31-70	8-13-72	2/3
w		1113-37460	6-9-70	6-27-72	2/0
Red-wing	ð	682-66429	4-17-68	3-8-71	2/11
"	ð	602-49874	7-5-62	7-27-68	6/0
	ð	652-61786	4-4-64	5-23-66	2/1
"		Same Bird	11	4-20-67	3/0
"		Same Bird	11	4-21-68	4/0
"	ð	652-61956	5-14-64	7-24-68	4/2
'n		Same Bird	"	5-1-69	5/0
11	ð	682-66475	4-18-68	4-18-70	2/0
19	ð	662-85710	4-26-70	6-3-72	2/2
"	đ	662-85714	4-27-70	5-7-72	2/1
**	ð	682-67046	4-20-68	7-11-71	3/3
11		Same Bird	10	5-6-72	4/1
11	ð	682-67227	4-26-68	6-29-70	2/2
**	ð	682-87531	8-2-65	11-13-69	4/3

Species	Band	Banded	Returned	Age
Red-wing of " of	712-16235 712-19250 712-19479 732-57565 732-57611 732-57828 732-57835 Same Bird 732-57946 732-64458 732-65253 732-67552 732-84318 732-87782 752-47046 66-101853 70-152102 70-152562	8-23-65 10-19-65 4-28-66 7-1-66 5-7-68 5-9-68 5-26-68 5-27-68 6-5-68 7-12-68 10-11-68 3-13-69 5-17-69 5-31-70 8-17-64 4-18-68 4-26-68 4-30-68 5-5-69 4-25-70	10-17-68 8-4-69 9-10-68 5-4-70 7-31-70 5-2-70 4-24-71 5-1-70 4-28-71 9-30-70 7-16-70 4-29-71 10-18-70 5-8-72 5-26-71 5-10-72 5-4-68 4-30-71 8-9-71 5-7-70 5-26-72 4-17-72	3/2 3/10 2/5 3/10 2/0 2/11 2/0 2/11 2/0 2/0 3/2 2/0 3/9 3/0 3/4 2/1 3/0 2/0
Starling "" "" "" "" "" ""	662-63703 662-65230 682-75323 732-58465 732-64060 732-64222 732-64242 752-47530 752-47973	9-26-66 7-21-64 6-21-65 7-1-68 7-7-68 7-10-68 7-10-68 7-2-70 9-18-70	2-12-69 1-12-67 11-19-70 1-16-71 12-1-72 7-22-70 12-6-72 2-27-73 2-9-73	2/5 2/6 5/5 4/5 2/0 4/5 2/7 2/5