

## NOTES ON THE HUMMING BIRD.

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From information gathered through various sources the humming bird is not often seen in Indiana after the middle of September of each year, most of them leaving much earlier than this, while a few tarry longer, even to the last of September. September 29 is the latest date of their appearance in the State as given by Mr. Butler in his report of the birds of Indiana. On September 8 I noticed one about the flowers in my garden; also one on September 9. On September 15 I noticed one again. This attracted my attention, as I had marked September 9 for the last date for 1907. I decided now to watch more closely the flowers in my garden and in my neighbor's garden adjoining.

This was the result of my observations: The daily visits of these birds being as follows: September 15, three visits; September 16, two visits; September 17, three visits; September 18, three visits; September 19, two visits; September 20, two visits; September 21, none; September 22, two visits; September 23, one visit at 4:30 o'clock in the afternoon; September 24, one visit at fifteen minutes past twelve, one at twenty minutes of five o'clock and one at 5:30 o'clock; September 25, one at seven o'clock in the morning; September 26, one visit at seven o'clock in the morning and one at twenty minutes past twelve; September 27, one visit at 6:30 in the morning; September 28, one visit at eight o'clock and one at nine o'clock; September 29, one visit at fifteen minutes of eight, one visit five minutes past nine, one at five minutes past ten, one at ten thirty, one at eleven forty, one at ten minutes of four, one at four thirty and one at five o'clock; September 30, one visit at twenty-five minutes past twelve; October 1, one visit at twelve o'clock and one at four thirty; October 2, one at three thirty; October 3, one at twelve twenty; October 4, one at five minutes of twelve and one at twenty minutes past twelve; October 5, I watched two hours before I saw a humming bird at ten thirty, another visit at ten fifty and at five fifteen, one hovering about a few nasturtiums; October 6, one visit at one o'clock, one at one-thirty and one at five o'clock. October 7 it rained all day and none was seen.

October 8 at five minutes past twelve, two came from the north and tarried a few minutes about a bed of cannas and together flew direct south. October 9 I saw one at twelve thirty hovering about the cannas. It came from the north and flew to the south. I had noticed the flower garden was approached by these birds from all directions up to the last two days, when the visits were made as stated. As I was engaged in school work my observations did not cover the whole day except in a few cases, but the record here given is my own.

On October 1 a few persons were asked to make observations, which they did, and with about the same results as here stated. Two of the stations were more than two miles apart. Three reported seeing these birds on October 8 and one on October 9.

It is often stated that the temperature governs the movements of these birds. The temperature for the time as reported to the weather bureau by Mr. Charles Geckler is as follows:

	<i>Maxi- mum.</i>	<i>Mini- mum.</i>		<i>Maxi- mum.</i>	<i>Mini- mum.</i>
September 15.....	87	62	September 30.....	76	41
September 16.....	87	63	October 1.....	81	41
September 17.....	88	63	October 2.....	83	56
September 18.....	90	66	October 3.....	81	62
September 19.....	90	65	October 4.....	73	67
September 20.....	89	62	October 5.....	75	45
September 21.....	83	62	October 6.....	76	42
September 22.....	75	49	October 7.....	71	56
September 23.....	81	43	October 8.....	66	45
September 24.....	80	56	October 9.....	68	37
September 25.....	65	36	October 10.....	68	36
September 26.....	71	38	October 11.....	63	50
September 27.....	81	50	October 12.....	56	37
September 28.....	78	58	October 13.....	55	31
September 29.....	59	53			

The record for a few days past their last appearance is given for the sake of comparison.

There was a white frost on the morning of September 25; also on the morning of October 9. It is also stated these birds will remain as long as there are flowers. There was an abundance of flowers until October thirteen, when there was a killing frost.