

BLUEBIRD COMMITTEE REPORT FOR 2013

2013 was a good year for the Bluebird Committee. Our Club Trails had a total of 15 pairs of Bluebirds. Our Affiliate Bluebirders hosted 9 pairs of Bluebirds. Altogether, these 24 pairs produced 113 fledgling Bluebirds. The number of fledglings is slightly lower than 2012's count of 132 fledglings.

In 2013, we counted 119 successful pairs of Tree Swallows, which produced 578 fledglings. That's a decrease from 2012, when we recorded 179 pairs of Tree Swallows with 780 fledglings.

There's one important factor to consider, when comparing 2012's statistics to 2013's statistics. In 2012, we collected data from 253 birdhouses. In 2013, we collected from only 181 birdhouses. That's 72 fewer birdhouses than the 2012's survey. If we had another 72 birdhouses in the 2013 statistics our Tree Swallow numbers would have been higher, possibly close to 2012's numbers. It's also possible that our Bluebird numbers would have also been higher.

"FIRSTS" for 2013

1st Red-winged Black-bird... This male bird was observed at the Ruthven Transfer Station. Don Bissonnette and Bob Tanner saw this bird on Saturday, February 16,



1st Singing Bluebird...was reported on Thursday, March 14. This bird was observed on the Coulter Side-road Bluebird trail by Joan Affleck and Don Bissonnette.

Start of a Bluebird Nest...was found on the Pollard property, on Saturday, March 23. Joan Affleck, Alan Batke, Dan Brower and Don Bissonnette were working on the Bluebird trails that day, and found the 1" high nest. The pair of Bluebirds was also observed.

1st Tree Swallow...was discovered on Friday, March 29. Gil Breton reported this single bird in his back-yard near Woodslee.

1st Wood Ducks...A pair of "Woodies" was discovered on the Altenhof's pond, on Sunday, April 7, near Kingsville, Ontario. (Joan Affleck and Don Bissonnette)

1st Bluebird Egg...was reported by Bob Tanner. He found this egg, while monitoring the Caney Creek trail near Harrow, Ontario, on April 12.

1st Oriole...Shirley Michinski reported a male Baltimore Oriole, on her farm near Harrow, on Friday, April 26.

1st House Wren...was observed at the Woodiwiss Bluebird Trail near Harrow, on April 30th. (Bob Tanner)

1st Tree Swallow Egg...was reported by Bob Tanner in his back-yard, near Ruthven. This single egg was found on Sunday May 5.

1st Bluebird Nest Hatching...2 nests of recently hatched Bluebirds were discovered on Saturday, May 11. Don Bissonnette found both of these nests at the Harrow Research Station.

“LASTS”...Lots of Tree Swallows were reported through September. They were reported in flocks feeding over ditches, sewage lagoons, and other bodies of water. The final Tree Swallow report was made on Wednesday, October 9. Don Bissonnette reported a flock of 20 or more, circling over Skinner Street in Lasalle, Ontario. (There is a pond nearby.)

EDUCATION

In the spring of 2013, we had 2 Bluebird tours (Saturday, April 27 & Saturday, May 4). We had invited the Essex County Field Naturalists’ Club, The Ontario Purple Martin Association, and the Friends of Cedar, Mill and Wigel Creeks. The weather was pleasant on both days. Each tour had several people in attendance.



Adult Great-Horned Owl, Photo courtesy of Elaine Labbee

Besides Bluebirds and Tree Swallows, we saw other wild-life. Everyone had a good time.

One of the high-lights of this year was the discovery of a family of Great-Horned Owls. Our Leader took us to an old pasture-field. (Sorry, Dear Reader, it’s a secret location.) We looked at Bluebirds. Then our Leader pointed out the Great-Horned Owl’s Nest. He told us that the 2 Owlets (young owls) had recently fledged, and were likely close by.

We broke up into pairs, and searched different areas in the pasture’s treed areas. After a few minutes, some-one yelled, “Here they are!” We rushed over and looked high up in an Oak Tree. There were 2 owls---one adult and one owlet. These 2 birds were pressed together, side-by-side. They were well camouflaged on the Oak branches. Fortunately for us, there was a good breeze, and we were able to spot their

swaying feathers. Later, we located the second owlet. As we walked back to our vehicles, we found the other adult owl.

Thanks to every-one who came to our tours. A special ‘Thank You’ to all the Bluebird Committee Members. They made every-one feel welcome, and answered their questions.

* * * * *

Another project we tackled last spring was an Educational Display. The Harrow Branch of the TD Canada Trust asked us to do this. Our display was a poster, with photos and write-ups. The display explained about Bluebirds, Tree Swallows, and the work of our ‘Bluebird Committee’. The display also thanked the Bank’s ‘Friends of the Environment’ Foundation, which gave our Committee a Grant in 2011. Bank employees and customers gave the display much praise.

~*~*~*~*~*~*~* NEWS FROM THE TRAILS ~*~*~*~*~*~*~*

Bluebird Nest On Top Of A Wren Nest

There are 2 Birdhouses at the Braithwaite restoration area. In late winter, a pair of Bluebirds stayed close to Birdhouse#1 [BH#1]. In April, these Bluebirds built a nest in BH#1. Also in April, a pair of Tree Swallows moved into BH#2. The Bluebirds produced 5 youngsters, which fledged around June 7.

On June 10, the Monitor cleaned out BH#1. He noted that “a House Wren is singing close to BH#1.” He also recorded, for BH#2, that, “The Tree Swallows are now hatched, there are little faces peeking out from under the brooding mother Tree Swallow”.

On June 25, The Monitor recorded, for BH#1, “House now contains a half-built House Wren nest. A Wren sings nearby in a Dog-wood bush. The male Bluebird sings nearby in a tree.” The 5 young Tree Swallows had recently fledged, so BH#2 was cleaned out.

The Monitor returned on July 3. He had a surprise when he opened BH#1. The half-built Wren was about the same size as last time. However, on top of it was a small Bluebird nest with 2 Bluebird eggs! The pair of Bluebirds was spotted nearby. The Wren was still singing, but now he was closer to BH#2. Inside BH#2, there was a partially built House Wren nest.

Now, here’s a little back-ground on the House Wrens. In the spring, the male builds a partial nest in a cavity. His territory around this nest ranges from 1/3 to 1/2 of an acre. He inspects all of the other cavities in his territory. He then builds partial nests in some, or all of these cavities.

Hopefully, a female Wren will accept him as a mate. She will inspect all of the cavities in their territory. Eventually she chooses one. The pair completes a nest, and raises a brood.

Through spring and summer, the male Wren continues to visit the cavities in his territory. He plugs their entrances with sticks. (Some Wildlife Biologists suspect that this behaviour prevents other Wrens from moving into his territory.) He may discover other nests of Cavity nesters, such as Bluebirds or Tree Swallows. In many cases, he becomes very cruel. He may throw the eggs or nestlings to the ground. He may throw a pile of twigs on top of the eggs or nestlings. The adults are then unable to brood these nests. These eggs and nestlings eventually cool and die. He usually plugs these entrances with sticks. This is why many Bluebirders refer to the House Wrens as their “least favourite native cavity-nesting bird”

Eventually the pair of Wrens settled into BH#2. The Bluebird nest was now only 30 steps from the Wren nest, well within Mr. Wren’s territory. The Monitor had seen this situation many times before, and it always ended poorly for the Bluebird nest. “Soon”, thought the Monitor, “The male Wren will come and destroy this Bluebird nest.”

Well, this story ended well after all. That male Wren never bothered this nest of Bluebirds. Three little Bluebirds hatched around July 23. It’s not clear why the male Wren did not usurp this Bluebird nest. Perhaps the Bluebirds fought him off. Perhaps he was an unusual male, and lacked the usual aggressive behaviour. The little Bluebirds fledged around August 9. The nest of House Wrens fledged around mid-August.

The Monitor had not seen any-thing like this before. What’s even stranger is that he encountered the same thing, several miles away, at the Altenhof farm. The Altenhof’s BH#1 is a Peterson-style. In late June, 6 young Tree Swallows fledged from BH#1. On July 3, the Monitor found a partially-built Wren nest inside this house. The male Wren was singing nearby.

However, on July 9, the monitor wrote, “A small Bluebird nest now sits on top of the Wren nest. The pair of Bluebirds stays nearby, watching me from the Poplar tree. The Wrens are now calling from the hedge-row.” The Hedge-row had some abandoned wood-pecker cavities. The Wrens chose one of these, for their nest-site.

This story also ends well. Like the Braithwaite’s Bluebirds, these Bluebirds were not usurped by the House Wrens. That’s remarkable, because the 2 nests were only 100’ apart. This Bluebird nest produced 2 young which fledged around August 19.



Braithwaite Restoration Site, Photo courtesy of Don Bisonnette



Bluebird Nest on Top of House Wren Nest at Braithwaite Restoration Site, Photo courtesy of Don Bisonnette

A Successful Bluebird Nest At 'Tuckette Farm'



Adult Male Bluebird near Harrow, ON
Photo courtesy of Elaine Labbee

About 10 years ago, Gerard Tuckette set up his first birdhouse, at 'Tuckette Farm'. Since then, he has always had at least one pair of Tree Swallows. In the last few years, Bluebirds have attempted to nest 5 times. All of these Bluebird nests were usurped by House Sparrows. Finally, in the spring of 2013, Gerard had his first nest of Bluebirds.

Gerard moved to his farm over 20 years ago. Soon after he settled in, he studied the large trees on his property, and on neighboring properties. He found many abandoned Woodpecker cavities. Unfortunately, in early spring, each of these cavities was claimed by Starlings or House Sparrows. Gerard often observed Tree Swallows and Bluebirds inspecting these cavities every spring. The Tree Swallows and Bluebirds were always quickly driven away by the non-native birds.

Even the Woodpeckers were troubled by the Starlings and House Sparrows. Each spring, Gerard would locate pairs of Woodpeckers, by listening for the sound of their drumming and pecking. He located many pairs of Downy Woodpeckers and also 2 pairs of Northern Flickers. He'd monitor these birds, using binoculars.

Sadly, Gerard found that every pair of Woodpeckers he studied failed to produce young. Each case was the same. As the Woodpeckers were excavating their nesting cavities, their work was inspected by the Starlings. When the Starlings were satisfied with the size and depth of the cavity, they would claim it. One of the pair of Starlings often sat in the entrance, facing out. When the Woodpeckers tried to enter the cavity, they received a peck from the Starling. Gerard saw some Downy Woodpeckers with blood on their faces or necks. In other cases, a Starling sat on a branch, close to the cavity. As the Woodpecker moved close to the cavity, the Starling would take flight, and chase off the Woodpecker. Eventually, the Woodpeckers left the area. It's possible that some of the Woodpeckers died from their injuries. The Starlings then raised a brood. In the following spring, these cavities became nest-sites to more Starlings, or possibly House Sparrows. (But they were never nest-sites for Bluebirds or Tree Swallows.) This situation is common across southern Ontario. Many Woodpecker cavities are not available for the Bluebirds, and Tree Swallows, because they dominated by the non-native birds.

Gerard decided to change this situation. The first thing he did was educate his neighbours. He noticed that some neighbours had bird-feeding stations. Unfortunately, some of the neighbours were using millet-based bird-seed, and bread-crumbs. These foods kept the Starlings and House Sparrows plentiful in the neighbourhood. Gerard encouraged his neighbours to use Sunflower seed and Niger seed. They did make the switch. Eventually there were less Starlings and House Sparrows in the neighbourhood. The neighbours were still happy with their feeding stations, because there were lots of native birds. (One neighbour claimed that he had more native birds, after the switch.)

Secondly, Gerard and some of his neighbours obtained the proper permits, and began to physically remove the remaining non-native birds from their farms. They accomplished this by using a variety of live-traps, such as Van Ert traps and ST-1 traps. The live non-native birds were then transported 12 or more miles away. [Always check out your Provincial or State Laws that pertain to the capture of live non-native birds. In some places you need a permit to do so.]



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In early February of 2013, a pair of Bluebirds began to visit Tuckette Farm. As winter progressed, these Bluebirds spent more time each day on the farm. They were often seen, catching Crab-spiders along the lane-way. They often inspected the 2 birdhouses, and several of the abandoned Wood-pecker cavities. Gerard named them 'Mr. and Mrs. Bluebird'

On Friday, March 29, both of the birdhouses had a male Tree Swallow on the roof. Both of these birds fiercely chased off any other male Tree Swallow that flew close to their home. Mr. and Mrs. Bluebird did not quarrel with either of these Swallows, so Gerard knew that Mr. and Mrs. Bluebird had not claimed either of these bird-houses. (By late March, most pairs of Bluebirds have claimed a Nest-site. Nest-building may start then, or some-time in April.) So, where was the Bluebirds' Nest-site? Gerard knew that it could be one of the old Wood-pecker nest-sites, which were no longer dominated by the Starlings and House Sparrows.

Eventually, Gerard discovered the Bluebirds' nest-site. Each spring, Gerard spreads Pine-straw and Wheat-straw around his garden. This provides nesting material for local birds. In early April, Gerard saw Mrs. Bluebird land in the garden. She gathered several pieces of straw, and then flew off to a large Silver Maple. Gerard was in his house at the time watching from a window. He grabbed his binoculars, and jumped into his boots. He ran out-side and headed to the large Maple.

Using the binoculars, Gerard located Mrs. Bluebird. She was sitting 30' up in the large Maple, next to her mate. The straw was still in her beak. After a minute, she flew higher into the tree, and climbed into an abandoned Wood-pecker cavity! Soon after, she flew out, with-out the straw. She returned to the garden, and gathered more straw. Gerard had located the nest-site!

Gerard enjoyed studying the Bluebirds at their home. However this soon came to an end. Eventually, the Maple's buds swelled, and the leaves grew. The Bluebird's home was completely concealed. No matter where Gerard stood, he could not see the nest-site.

Still, Gerard was 'able to figure out what was going on'. Starting in Mid-April, Mrs. Bluebird was rarely seen. Gerard knew that she had started incubation. In early May, Mr. Bluebird was often catching insects, and flying into the large Maple's canopy. It was obvious that there were youngsters to feed! As May progressed, Mrs. Bluebird began to appear more often. Now she was spending less time brooding, and more time catching insects for her growing nestlings.

In late May, Gerard saw Mr. Bluebird catch an insect. This time, Mr. Bluebird did not fly into the large Maple's canopy. Instead, he flew into a smaller Maple's canopy, which was 100' to the South of the large Maple. As he flew into the canopy, he was greeted by the sound of "Jap! Jap!" --the call of young birds begging for food. The young Bluebirds had fledged, and, and obviously flown into this smaller Maple. Each day, Gerard noticed that these fledgling Bluebirds were moving among the trees on his property. Once he saw one of these fledglings fly from one tree to another. Still, Gerard longed to get a better look at the young Bluebirds.

The first time Gerard saw the fledglings was on Saturday, June 1st. While doing yard-work, Gerard saw 2 small birds sitting side-by-side on a low branch. "I knew that these were some kind of fledglings", said Gerard. "They were too far away to identify, with-out binoculars. I began walking back to the truck, to get the binoculars. Then I saw Mr. Bluebird, making short flights from tree to tree. He was heading towards the 'mystery fledglings'. As he approached them, they turned to face him and called 'Jap! Jap!' Mr. Bluebird fed them each an insect, and then flew away. I was glad to have finally found the young Bluebirds".

As June progressed, both Gerard and the monitor (Don Bissonette) saw the Bluebird family frequently. Mr. and Mrs. Bluebird and their 2 youngsters were often seen on or near the back-yard bird-bath. One fledgling was a female, the other a male. The family often used Gerard's Redbud trees as hunting perches. (Both Eastern Bluebirds and Eastern Redbuds are Carolinian species.)

In late June, the 2 fledglings were often hunting with-out their parents. They were becoming more independent. At the same time, Mr. and Mrs. Bluebird built a summer nest, in a neighbour's bird-house. This nest contained 4 eggs. Unfortunately, House Sparrows usurped this nest. The Bluebirds did not re-nest. Despite this disappointment, Gerard was very happy to have had one successful nest of Bluebirds on his property. Hopefully, Gerard will have more Bluebird nests on his farm, in the future. Gerard reports that this Bluebird family began to roam in the fall, as most Bluebirds do. Still, they returned to 'Tuckette Farm' occasionally. Gerard last saw them in early December.

Wintering Bluebirds In Essex County

The winter of 2013-2014 has been the coldest on record here, and in much of North America. On Tuesday January 7th, we learned that -40C=-40F, because that was our wind-chill! This winter has also been one of the snowiest on record. Amazingly, there were Bluebirds wintering in Essex County. There were many reports through December. Here are a few reports.....

---Wesley Ford reported a single male Bluebird on that bitterly cold day of January 7th. This bluebird landed on Wesley’s front porch. He perched on a chair’s arm-rest. He wasn’t alone, since there was a Mourning Dove resting on the chair’s cushion. The Ford’s farm is near Harrow, Ontario.

---On January 14th, Wesley reported a group of 4 Bluebirds in his back-yard. These birds were picking Crab-apples, right off the tree. Since then, these Bluebirds have been observed on, or close to the Ford’s farm, through the winter.

---Also on January 14th, Joan Affleck and Don Bissonnette saw 4 Bluebirds while washing the birdhouses at the Altenhof’s farm. They also saw 3 wintering Robins.

---Monica Poisson also had a flock of several Bluebirds on her farm through mid-January. These birds were often seen feeding on Sumac fruit. Monica’s farm is south of Essex Center, Ontario.

Pepper-Mint Oil Keeps The Mice Away

Some Bluebirders report that, they occasionally find a birdhouse where mice have moved in, despite the grease and/or predator guards. Some of us learned recently, that mice are repelled by the scent of Pepper-mint oil. We thought we’d give it a try.

In January of 2013, we located a birdhouse where, mice were a chronic problem. We washed the birdhouse out and left the door propped open for several days. Then we added several drops of Pepper-mint oil to 2 cotton-balls. We secured both cotton-balls to the interior of the birdhouse, using thumb-tacks. We set the cotton-balls on the back-board close to the roof, and closed the house.

In time, the wood absorbed the pepper-mint oil. In late February, the house was still mouse-free. We removed the tacks and cotton-balls at that time. A pair of Tree Swallows moved in and raised a brood. The mice did not return. There was one pleasant side effect from this pepper-mint oil remedy: Each time the monitor opened the door to inspect the nest, his nose caught the fragrance of pepper-mint!

If you have a mouse-prone birdhouse, give this Pepper-mint oil remedy a try. A few other Bluebirders have tried it, and had success.

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THE BLUEBIRD BRUNCH

14 Bluebirders met on Saturday, October 26 for our Annual Bluebird Brunch. We met at Rose’s Kitchen in Essex. As usual every-one had a good time. It’s always good to hear other Bluebirders tell of their discoveries and adventures. We were able to collect about 75% of the Club trail’s data. Thanks again to the staff at Rose’s, the food and service were great.

One item discussed at the meeting, was the washing of the birdhouses. Some-one asked, “Why wait until January to start washing the Birdhouses? There are lots of nice days in the fall.” A few volunteers signed up to this plan.

As a result of this suggestion, about half of our club trails were washed out by mid-November. Some of our Affiliate trails were also washed out by that time. A big ‘THANK YOU!’ goes out to Joan Affleck and Bob Tanner who did the majority of the washing.

WINTER WASHING OF THE BIRDHOUSES

Despite bad weather and deep snow, there were a few decent days in January. These ‘decent’ days were sunny and calm. Joan Affleck and Don Bissonnette washed out some birdhouses on these days. Deep snow made the job very challenging, so they only went out for a few hours at a time. They were surprised to see a variety of birds, including bluebirds and robins.

As usual, they found Blow-flies in several of the birdhouses. Each winter we find a few sleepy Blow-flies in some of the houses. This year, there was a noticeable difference. Every Blow-fly that they encountered was dead, and freeze-dried. Each Blow-fly would crumble at the slightest touch. Obviously, the bitter cold was deadly to these flies. It will be interesting to see, if there will be less Blow-fly infestations in the 2014 nesting season.

UPCOMING EVENTS

The **Ontario Eastern Bluebird Society's Annual General Meeting** is set for Saturday, March 22 at the Royal Botanical Gardens in Burlington, Ont. For more information, visit: www.oebs.ca

The **Ontario Purple Martin Association's** next meeting is scheduled for April 19th. The Meeting starts at 9am. It will be held at the 'Up-stairs Meeting Room' in the Orchard View Golf Course's Club-house. For more information visit: www.essexpurplemartins.ca

The Bluebird Committee Tours. There will be 2 tours this year....Saturday, April 26th and Saturday May 3rd. This tour is open to the members of the Essex County Field Naturalists' Club, Friends of Cedar, Mill & Wigel Creeks, and the Ontario Purple Martin Association. Both tours start at 9:30am. We meet at Greenway Parking lot on the Arner Townline(County Road 23), just a half of a kilometer North of County Road 20. From there we will travel to nearby farms to see Bluebirds, Tree Swallows and other wild-life. No pets, please. Wear boots. Trips will be cancelled in there is rain or bad weather.

The NABS 37th Annual Convention will be in Boise, Idaho, U.S.A. this year. It will be held at the Boise Centre & Grove Hotel on June 13th, 14th, and 15th. There will be a variety of field trips and the screening the new documentary, "Bluebird Man". For more information and to register on-line, visit: www.nabluebirdsociety.org.

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**THANK YOU** to every-one involved in this labour of love. Thanks to every-one who has contributed their time, lumber, or money. (All Financial Contributors receive a Charitable Tax Receipt.) A big 'Thank You' goes out to Bob Tanner. In January and February of 2013, he built 10 Birdhouses, and donated them to the Bluebird Committee. We would like to say 'Thank You' to everyone who contributed story ideas for this Report. And last but not least, 'Thank You' to Greg Harrison and Staff, who helped put this Report together. Greg is the Computer-Genius who owns and operates 'The Computer Centre' in Harrow.

***BEST WISHES FOR THE 2014 NESTING SEASON !!!!***

Sincerely, Don Bissonnette

| Essex County Field Naturalists' Club     |                    |            |                        |                |                         |                    |               |
|------------------------------------------|--------------------|------------|------------------------|----------------|-------------------------|--------------------|---------------|
| Bluebird Committee 2013 Production Chart |                    |            |                        |                |                         |                    |               |
| Trail                                    | Monitor            | Houses     | Successful<br>BB pairs | BBs<br>Fledged | Successful<br>TS Pairs. | Tr Sws.<br>Fledged | Wren<br>Pairs |
| <b>Club Trails</b>                       |                    |            |                        |                |                         |                    |               |
| Altenhof's                               | Don Bissonnette    | 6          | 2                      | 10             | 6                       | 36                 | 3             |
| Balkwill's                               | Alan Batke         | 7          | 1                      | 5              | 5                       | 22                 | 1             |
| Caney Creek                              | Bob Tanner         | 2          | 0                      | 0              | 1                       | 5                  | 2             |
| Doyle Godard                             | Bob Tanner         | 5          | 2                      | 9              | 4                       | 14                 | 3             |
| Grosso's                                 | C&M Calder         | 3          | 1                      | 6              | 3                       | 14                 | 0             |
| Harrow R. Stn.                           | Don Bissonnette    | 4          | 3                      | 21             | 1                       | 5                  | 0             |
| Howling's                                | Denise Hartley     | 2          | 0                      | 0              | 2                       | 10                 | 0             |
| Lucchese's                               | J Affleck & R Muir | 3          | 2                      | 7              | 1                       | 6                  | 1             |
| O'Neil's                                 | J Affleck & R Muir | 6          | 2                      | 7              | 3                       | 17                 | 0             |
| Pare's                                   | Bob Tanner         | 2          | 1                      | 4              | 0                       | 0                  | 1             |
| Pollard's                                | Graham Brown       | 3          | 1                      | 6              | 2                       | 12                 | 2             |
| Woodiwiss'                               | Bob Tanner         | 3          | 0                      | 0              | 2                       | 11                 | 1             |
| Club Total                               |                    | 46         | 15                     | 75             | 30                      | 152                | 14            |
| <b>Affiliate Trails</b>                  |                    |            |                        |                |                         |                    |               |
| Ambassador B.                            | Dennis Shady       | 4          | 0                      | 0              | 2                       | 10                 | 1             |
| Amherstburg                              | Dan Mustar         | 4          | 0                      | 0              | 1                       | 5                  | 0             |
| Batke's                                  | Alan Batke         | 1          | 0                      | 0              | 1                       | 4                  | 0             |
| Braithwaite's                            | Don Bissonnette    | 2          | 1                      | 8              | 1                       | 5                  | 1             |
| Brown's                                  | Graham Brown       | 1          | 0                      | 0              | 1                       | 6                  | 0             |
| Cornies'                                 | Rob Cornies        | 4          | 0                      | 0              | 4                       | 20                 | 0             |
| Coulter Sd. Rd.                          | Joan Affleck       | 6          | 0                      | 0              | 4                       | 21                 | 0             |
| Dunn Road                                | A&S Michinski      | 27         | 0                      | 0              | 20                      | 100                | 3             |
| Essex Landfill                           | Don Masse          | 4          | 0                      | 0              | 3                       | 16                 | 0             |
| Ford's                                   | W&N Ford           | 7          | 0                      | 0              | 6                       | 32                 | 1             |
| Fryer's                                  | Bob Tanner         | 4          | 1                      | 5              | 3                       | 13                 | 2             |
| Green Way                                | Alan Batke         | 3          | 0                      | 0              | 3                       | 13                 | 0             |
| Hamel's                                  | Paul Hamel         | 1          | 0                      | 0              | 1                       | 4                  | 0             |
| Hamill's                                 | Al Hamill          | 6          | 1                      | 2              | 4                       | 20                 | 0             |
| Knapp's                                  | Marie Knapp        | 2          | 0                      | 0              | 2                       | 11                 | 0             |
| Mother-wood                              | C&M Calder         | 15         | 4                      | 18             | 5                       | 24                 | 0             |
| Poisson's                                | C&M Poisson        | 7          | 0                      | 0              | 2                       | 7                  | 0             |
| Santarosa's                              | Joan Affleck       | 2          | 0                      | 0              | 1                       | 6                  | 0             |
| Smith's                                  | Alex Smith         | 3          | 0                      | 0              | 1                       | 3                  | 0             |
| Tanner's                                 | Bob Tanner         | 3          | 0                      | 0              | 4                       | 19                 | 0             |
| Transfer Stn.                            | Alan Batke         | 7          | 0                      | 0              | 7                       | 28                 | 0             |
| Trivett's                                | Vicky Trivett      | 2          | 0                      | 0              | 1                       | 4                  | 0             |
| Tuckette Farm                            | Don Bissonnette    | 2          | 1*                     | 2              | 2                       | 12                 | 0             |
| Viv's                                    | Vivian LaCroix     | 3          | 1                      | 3              | 1                       | 5                  | 0             |
| Waldron's                                | Gerry Waldron      | 13         | 0                      | 0              | 7                       | 32                 | 0             |
| Wilamette Farm                           | Don Bissonnette    | 2          | 0                      | 0              | 2                       | 6                  | 0             |
| * Natural Cavity                         |                    |            |                        |                |                         |                    |               |
| Affiliate Total                          |                    | 135        | 9                      | 38             | 89                      | 426                | 8             |
| <b>Grand Total</b>                       |                    | <b>181</b> | <b>24</b>              | <b>113</b>     | <b>119</b>              | <b>578</b>         | <b>22</b>     |