

2006 Michigan Exotic Snail Plan
Exel Freight Forwarder Site
Xerolenta obvia

Fiscal Year: 2006

Name of Project: *Xerolenta obvia* containment project

Size of Infestation: Estimated 5000 square feet (0.12 acres) (See map)

Background: Discovered in September, 2004. Treated with deadline in late 2004. Snails were hand collected in late 2004 (Two PPQ Officers spent 3 hours collecting every visible snail in the area). Containers on chassis were moved at least 5 feet away from infested area. In spring 2005, snails were collected during a site was visited. Treatments have been applied along with hand collection of all snails observed. *X. obvia* population numbers have been greatly reduced with possible eradication. See Excel folder for site activities that occur in 2005.

Project Coordinator: Brian Sullivan / David Dehn, Jr.

Objective:

1. Reduce or eliminate the risk of artificial spread of *X. obvia*.
2. Monitor the natural spread. Ensure that there is no natural spread to neighboring businesses to the east and west of site. Prevent natural spread into woodlot A (see map).
3. Asses the possibility for eradication. Look at opportunities for eradication.

Benefits: Michigan farmers will be protected from the economic impact that might result from the unchecked reproduction and movement of *X. obvia*.

Funding Code/Category: Pest Detection

Materials, Methods and Identification:

Materials-

- 🌀 Granular molluskicide
- 🌀 Disposable dust masks
- 🌀 Disposable rubber gloves
- 🌀 Plastic bags

Methods-

- 🌀 Determine ownership/control of woodlot A
- 🌀 PPQ Officers will hand collecting snails at some point throughout the summer, and the height of snail population numbers.
- 🌀 PPQ Officers will apply molluskicide treatments to infested area in the 2006 season.
- 🌀 Containers/trailers/chassis will be placed on official PPQ Hold if the following is found:
 - Containers/trailers/chassis found to be contaminated with quarantine significant snail.
 - Containers/trailers/chassis is located within 5 feet of an area known to be infested with quarantine significant exotic snails.

Public awareness/relations-

- PPQ Officers will maintain contact with property managers through 2 scheduled meetings in 2006. PPQ's concern for the snail situation will be stressed. Property managers will be asked to maintain property keeping weeds less than 8 inches tall, and debris to a minimum.

Reporting-

- All snail control activity, and/or discussions with land owners/controllers will be reported on a Snail Program Record form, and submitted to Michigan State Plant Health Director.

Project Dates:

Approximately May 1, 2006 – October 1, 2006

Project Budget:

| Budget Category | Projected Costs | Total |
|---|---------------------------------------|----------|
| 1100 – Salary 1 visit/month * 5 months * 2 hours/visit @ GS-11 (26.88) | 5*2=10 10*26.88=268.80 1 person | \$268.80 |
| 1200 – Benefits 286.80 * 30% | 80.64 | \$80.63 |
| 2600 – Supplies & Materials- 2 Bag 40 pound bags molluskicide Safety equipment (Dust masks, rubber Gloves) | 200.00 20.00 | \$220.00 |
| Equipment – Possible replacement cost of pesticide dispersal equipment. | 100.00 | \$100.00 |
| Total \$ | | 669.43 |

EXEL FREIGHT FORWARDER SITE

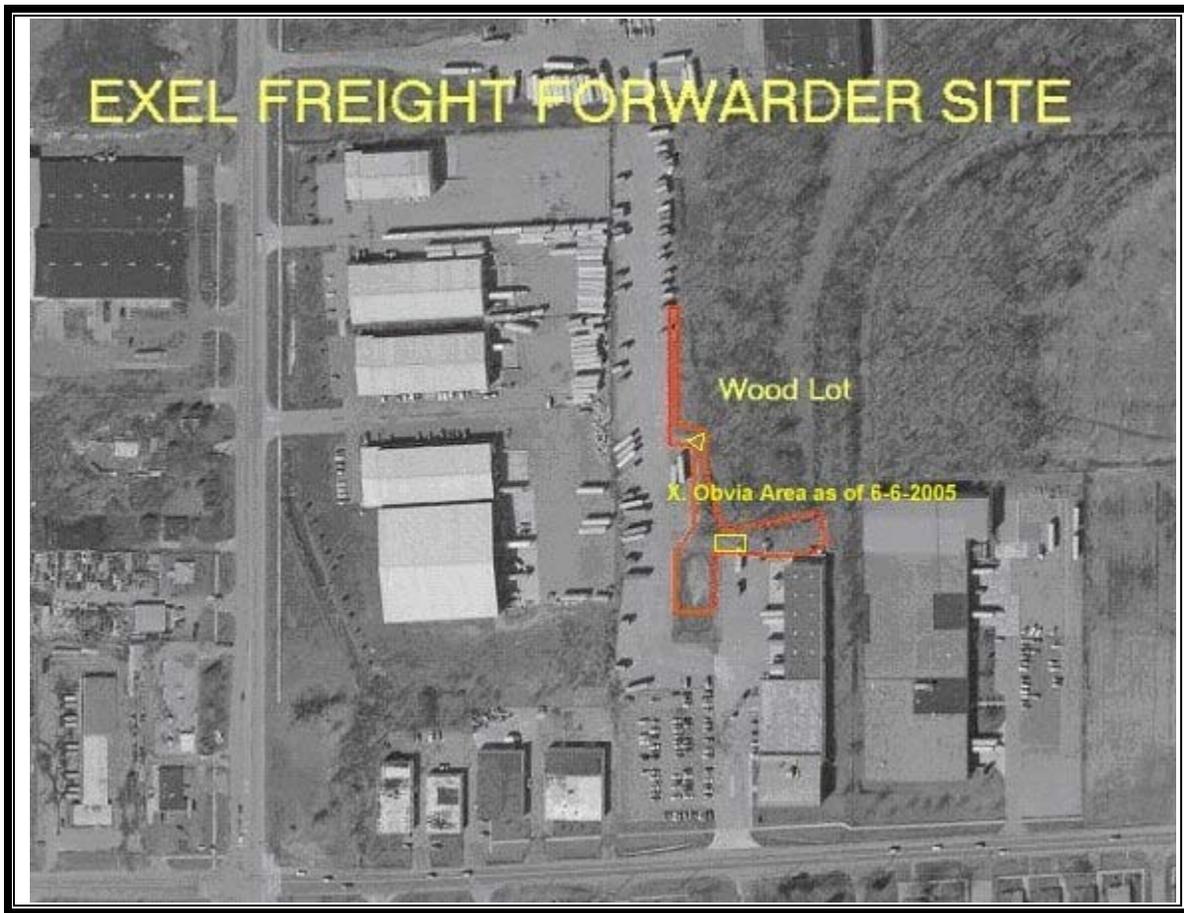


Exotic Snail Sites in Wayne County Michigan

General Summary as of June 2006

Excel

- *X. obvia* occur at this one acre infestation (discovered in 2004).
- Site has been mitigated to prevent artificial movement.
- Categorical Exclusion for site completed in 2004.
- 2004 treatments & collections reduced this population by 90-95%.
- Hazen Transport, Inc. currently rents and operates at site.
- Debris and equipment removed out of this area in 2005.
- In 2005, small populations observed in two small separate pockets.
- First snail observations after winter dormancy occurred in June for 2005.
- Hand collection of all snails observed occurred (205 total).
- Ten site visits in 2005
- Two treatments of molluskicide occurred in 2005, 30 pounds total.
- Few containers stored in the container lot and containers are isolated from vegetation.
- Site shows promise for containment with opportunistic eradication.
- Eradication may have occurred due to 2005 activities.
- No snails found after 9-8-2005.
- Habitat alteration was performed by Hazen in May 2006 by bulldozing and grading site.



**Yellow blocks indicate snail areas as of 2005*

Exotic Snail Sites in Wayne County Michigan

General Summary as of June 2006

Detroit Marine Terminal

- *X. obvia* and *H. cinctella* occur at site (discovered in 2004).
- Part of the RGL Site-divided by RR Tracks (15 acre infestation).
- Categorical Exclusion for site completed in 2004.
- Site has been mitigated to prevent artificial movement.
- Four treatments occurred in 2005 (65 pounds total applied).
- Seven site visits in 2005
- *H. cinctella* small infestation about 2000-3000 ft sq. along Scotten Rd.
- Possible eradication of *H.cinctela* occurred due to debris/vegetation removal & treatment in 2005 (continuing survey needed in 2006).
- Vegetation and debris removal along with grading the main yard occurred in 2005 (all performed by property owner under PPQ direction).
- *X. obvia* population has been reduced by 95% due to property management practices.
- Well controlled and eradication possible.
- Continued survey and treatment as needed.
- DMT will apply herbicides in areas as needed.
- No snails observed in spring 2006 and one treatment applied.



Exotic Snail Sites in Wayne County Michigan

General Summary as of June 2006

Renaissance Global Logistics

- Only *X. obvia* occur at this two acre infestation (discovered in 2004).
- Part of the Detroit Marine Terminal Site-divide by RR Tracks.
- Site has been mitigated to prevent artificial movement.
- Categorical Exclusion for site completed in 2004.
- 2004 treatments seriously reduced population size.
- Vegetation has been reduced but more management needed.
- Containers may need to be moved if snails are found present in 2006.
- Treatment along with continual yard management should provide an opportunistic eradication on north side of the tracks.
- Five site visits in 2005 and two treatments (20 pounds applied total).
- Well controlled and eradication possible.
- RGL applied herbicides in areas as needed.
- No snails observed in spring 2006.



Exotic Snail Sites in Wayne County Michigan

General Summary as of June 2006

Container Port Group/Norfolk Southern Delray

- *X. obvia*, *M. cartusiana* & *C. intersecta* occur at this 15 acre infestation (discovered in 2004).
- Site has been mitigated to prevent artificial movement.
- Categorical Exclusion for site completed in 2004.
- *C. intersecta*:
 - Area where *C. intersecta* (1000-1500 sq. ft. infested area) occur is clean of debris, little to no vegetation. Treatments (Molluscicides and salt) were applied in 2004. Keep containers back from this area to prevent artificial spread. Population may be eradicated. No live adults were found in 2005.
- *M. cartusiana*:
 - One *M. cartusiana* found in 2005 (2000 sq. ft. infested area) along wall site. Containers isolated from area of concern. Area treated in 2004 and 2005. Populations were reduced 99% by 2005. May be eradicated.
- *X. obvia*:
 - *X. obvia* population reduced by at least 70% in treated areas.
- Treatments occurred in all areas except at hill site (three treatments-132 pounds total).
- Meeting planned with NS for habitat alteration/vegetation control.



Exotic Snail Sites in Wayne County Michigan

General Summary as of June 2006

Trimodal

- *X. obvia* & *M. cartusiana* occur at this site (discovered in 2004).
- Site has been mitigated to prevent artificial movement.
- Categorical Exclusion completed in 2004.
- Area where *M. cartusiana* occurs (1/4 acre infestation), was treated in 2004, ground plowed/ graded and removal of vegetation/ debris.
- *M. cartusiana* was again detected in 2005 and spring 2006 (four adults in 2005 and four immatures in 2006).
- Four visits and three treatments in 2005 (12 pounds of treatment applied).
- *X. obvia* found in isolated areas of yard (one acre infestation).
- *X. obvia* numbers has been reduced by 2004 and 2005 treatments and activities.
- Yard has been cleaned and debris moved.
- CSX is reclaiming 1/4 of the yard. Fence and gate will be in place. In this area the ground has been graded and crushed asphalt added thus removing/ killing any snails in this area.
- Well controlled and eradication possible.

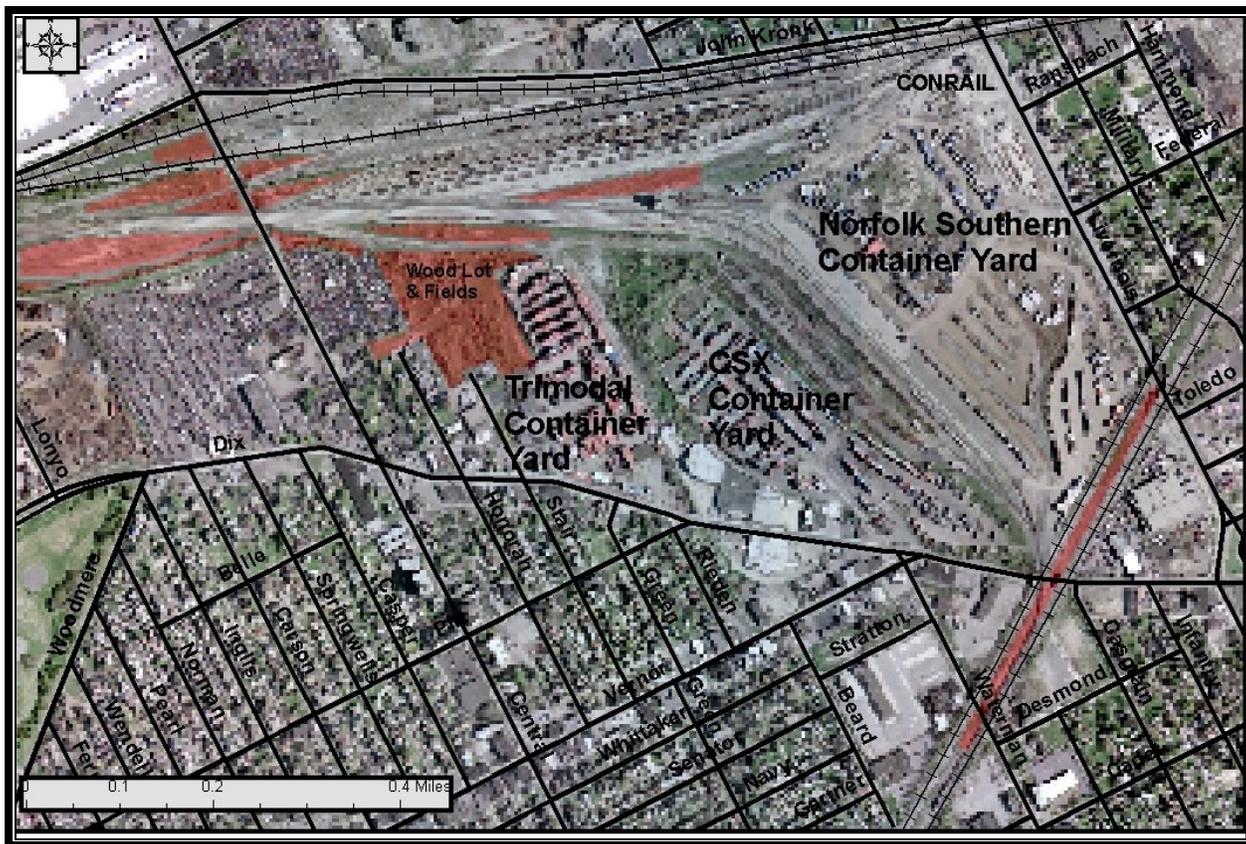


Exotic Snail Sites in Wayne County Michigan

General Summary as of June 2006

Livernois Conrail Shared Assets and Norfolk Southern Container Yard

- *X. obvia* only occur at this 40 acre site (discovered in 2004).
- Site has been mitigated to prevent artificial movement.
- Categorical Exclusion for site completed in 2004.
- CSX and NS yards have been modified and renovated by owners. One small population of *X. obvia* occurs at the NS yard (one treatment). Snails existed at these yards in the past but its habitat has been destroyed.
- In 2004, treatment along the edges of the property prevented CSX from becoming re-infested in the grassy areas along the perimeter.
- Seven visits to Livernois area sites, two treatments-20 pounds applied to NS yard and 50 pounds applied to Conrail(coal hopper sites)-total of 60 pounds applied.
- Heavy populations in parts and partially contained but continuing to spread toward residential areas.
- In 2006 containment needed along Lonyo Rd. and other key areas to prevent natural spread.

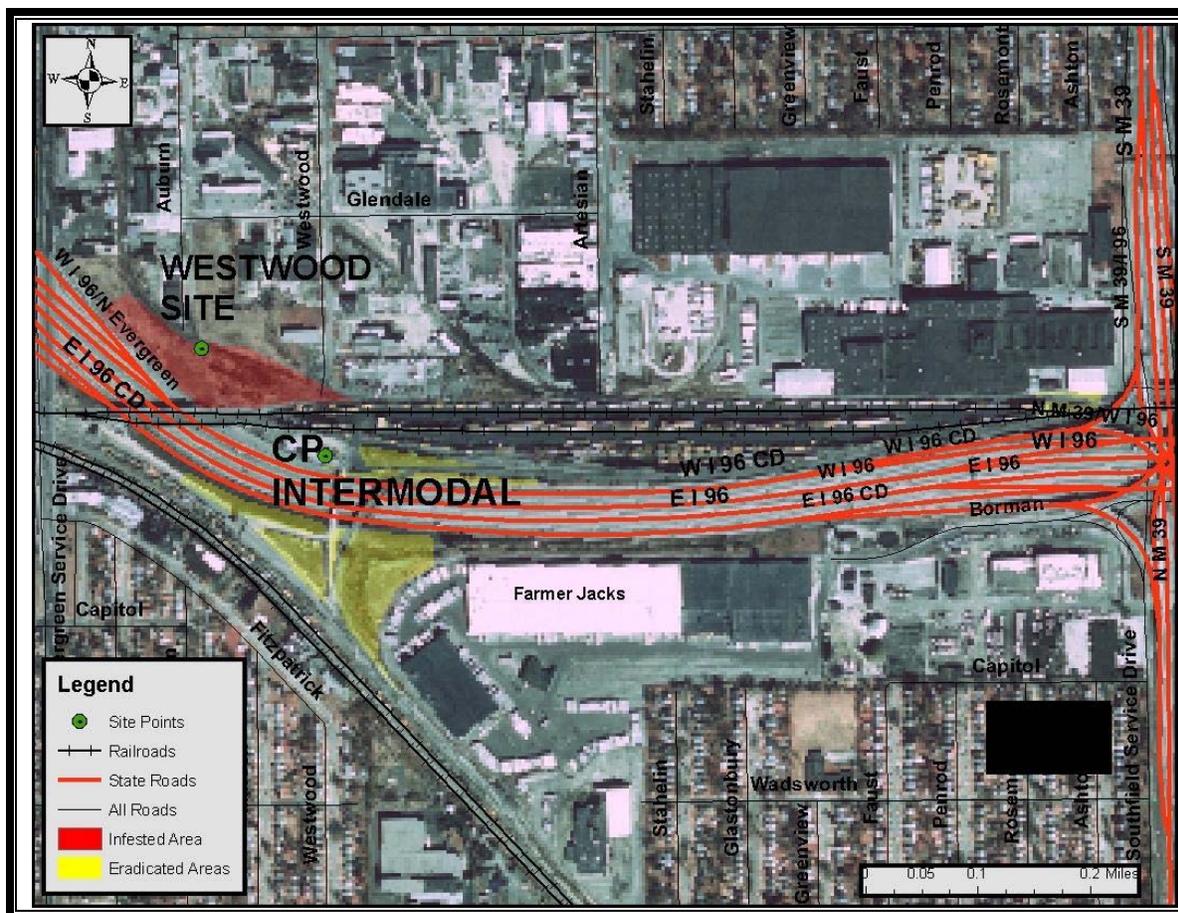


Exotic Snail Sites in Wayne County Michigan

General Summary as of June 2006

Canadian Pacific Rail

- Only *X. obvia* occurs at this 14 acres site of infestation prior to treatments (discovered in 2001).
- Site has been mitigated to prevent artificial movement.
- Categorical Exclusion for site updated in 2004.
- The infestation mainly eradicated. Small populations with low numbers were found in 2005. These four locations occur in the MDOT areas and one at front entrance to CP (estimated 1/4 acre each).
- Any snails observed were hand collected and destroyed.
- Six visits to CP in 2005 with 6 treatments (130 pound applied).
- More survey needed to keep track of population levels or success of treatments. Treatments occurred before breeding activity.
- Close to eradication and contained.

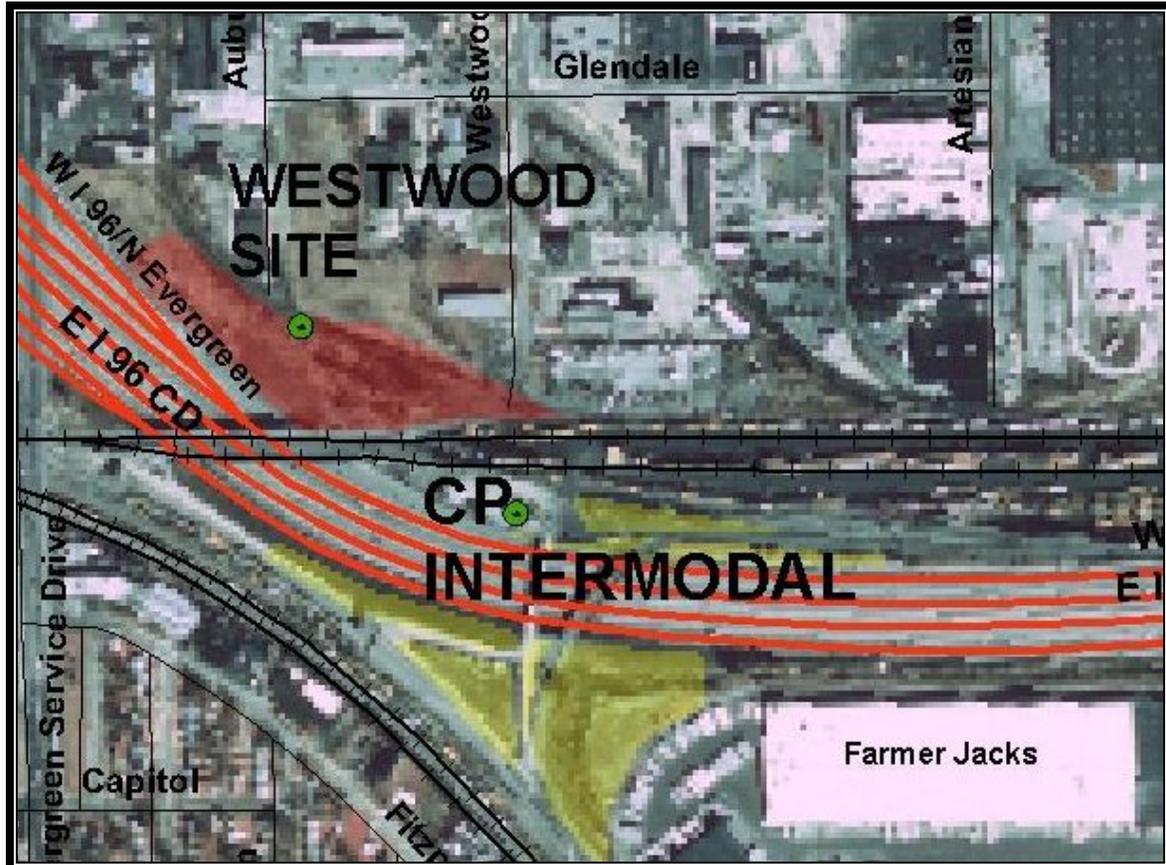


Exotic Snail Sites in Wayne County Michigan

General Summary as of June 2006

Westwood

- Only *X. obvia* occur at this 15-20 acre site (discovered in 2004).
- Site has been mitigated to prevent artificial movement.
- Categorical Exclusion for site is in the process of being completed.
- This heavy infestation is not fully delimited on the northern side.
- Property owners are in the process of being researched and updated about this infestation (estimated five property owners involved).
- Only three treatments (80 pounds applied) to prevent it from re-infesting container yard and crossing bridge across I-96.
- Containment is need for this large population that is expanding its range spreading toward other businesses.
- Five site visits in 2005.



Exotic Snail Sites in Wayne County Michigan

General Summary as of June 2006

General Summary for Activies Planned for 2006

- Maintain contact with property owners involved at sites.
- Gain further corporation from property owners to assist in various activities.
 - Vegetation control and debris removal.
 - Treatments of sites if possible (supplying and applying molluskicide by owners).
 - Snail habitat alteration (grading areas).
- Survey all sites to insure delimiting and containment has occurred.
- Evaluate sites to determine current status of infestation at sites (population numbers) or if eradication has occurred.
- Insuring artificial movement does not occur and implement mitigation measures if needed.
- Insuring natural movement does not occur in key areas (movement toward residential areas).
- Treatments in key areas to achieve Michigan's Strategy for dealing with exotic snails in container and rail yards.

Summery of Site Visits and Treatments for 2005

| Site | # of Site Visits | # of Treatments | Total Amount Applied (Lbs) |
|-----------------|------------------|-----------------|----------------------------|
| Excel | 10 | 2 | 30 |
| DMT | 7 | 4 | 65 |
| RGL | 5 | 2 | 20 |
| CPG/NS | 5 | 3 | 132 |
| Livernois Sites | 7 | 2 | 70 |
| Trimodal | 4 | 3 | 12 |
| CP | 6 | 6 | 130 |
| Westwood | 5 | 3 | 80 |
| TOTALS | 49 | 25 | 539 |