

**Society To Prevent Dutch Elm Disease  
2010/2011 Annual Report**



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**This report was written by Janet Feddes-Calpas  
Reviewed by Milton Davies**

*Prevention remains our most effective form of controlling Dutch Elm Disease*

## 1. STOPDED Chair Message - Milton Davies

It has again been a great year for the Society To Prevent Dutch Elm Disease (STOPDED) with many accomplishments. Along with the regular work of keeping Alberta Dutch elm disease free, we have been able to make some major changes to the Society. I believe that these changes make the organization more transparent, accountable, responsible, and trustworthy. Some of these changes include:

- New Objects and detailed Bylaws. Both of these have now been received, approved, and registered with Alberta's Corporate and Society Registrar. The last bylaws were registered 1993 when the society was originally cooperated.
- For the first time ever the STOPDED website posts its bylaws, objects, general meeting minutes, annual and research reports for all its members and the general public to view.
- A bookkeeper has been hired. This has increased the Society's credibility because of its ability to generate both Income Statements and Balance Sheets for the Board as it reviews its ongoing financial status.
- Society books have been reviewed (2008/2009) and the 2009/2010 have been audited by an Alberta accredited Chartered Accountant.
- The Society is now registered with Revenue Canada Agency as a non-profit organization and is now eligible for GST rebates. We will continue with our quest to become a Canadian Registered Charitable organization with tax receipting status.
- Scholarships for four worthy Olds College horticultural and arboricultural students.

On behalf of the STOPDED board and its membership, I would like thank the following for their annual financial support:

- Alberta Agriculture and Rural Development,
- Alberta Sustainable Resource Development,
- Tourism, Parks and Recreation, and
- Municipal Affairs.

I would also like to thank the Agricultural and Assistant Fieldman, Olds College, the Canadian Food Inspection Agency, Canadian Forest Services, Canadian Border Services, elm bark beetle trap collaborators, those that help us out with the firewood bin disposal, all the cities that oversee their satellite communities, our Executive Director, Janet Feddes-Calpas, who administrates and operates the Provincial Dutch Elm Disease Prevention Program, and Dr. Ken Fry for his entomology support. I would take this opportunity to thank the STOPDED Research Committee and the STOPDED Board for their hard and sometimes difficult work.

As the STOPDED Chair, I believe strongly in the importance of maintaining our existing partnerships and developing new ones. The experience in the Provinces and other areas that are fighting DED has proven that a prevention management program is indispensable. It is my desire that STOPDED continue to be part of the solution in keeping Alberta free of DED and any other exotic tree pests.

Respectfully Submitted,



## 2. Background

- Dutch elm disease or DED is an invasive fungus known as *Ophiostoma ulmi* or *Ophiostoma nova ulmi* that can affect any elm (*Ulmus* spp.) tree. Once infected the elm tree will die.
- The exotic insect vectors for DED are:
  - Smaller European Beetles (SEEBB) (*Scolytus multistriatus*, Marsh)
  - Native elm bark beetle (NEBB) (*Hylurgopinus rufipes*, Eichh)
  - Banded elm bark beetle (BEBB) (*Scolytus schevyrewi*)
- Human vector - domestic firewood movement
- The elm has been the preferred tree to plant, not only for its stately beauty, but also for the tree's impressive list of useful properties such as:
  - growing fast on a wide variety of soils
  - easily transplantable
  - long lived (300+ years)
  - more disease resistant (with the exception of DED) than other varieties of trees grown in Alberta
  - tolerance to drought
  - high salt tolerance in urban boulevard plantings
  - one of the few species that can thrive in the extreme climactic conditions that are present in Alberta
- Since the introduction of the disease from Europe in 1930, it has destroyed millions of American elm (*Ulmus americana*) trees across North America.
- 1975 – DED found in Winnipeg, Manitoba.
- 1976 - Alberta plant pathologists and entomologists formed a DED Action Committee. Dr. Ieuan Evans, plant pathologist with Alberta Agriculture at that time, cited the threat of a possible outbreak of this disease in Alberta as the reason for Alberta Agriculture's amendment to the Alberta Agricultural Pests Act to include both the pathogen and its beetle vectors.
- 1976 to 2004, Alberta Agriculture administrated the Provincial DED Prevention Program.
- 1981 – DED found in Regina, Saskatchewan.
- 1993 - The Society To Prevent Dutch Elm Disease (STOPDED) was formed.
- Since 1994 either the smaller European elm bark beetles (SEEBB) or the banded elm bark beetle (BEBB) have been found in the following Alberta municipalities: Calgary, Edmonton, Vauxhall, High River, Medicine Hat, Coutts, Balzac, Red Deer, Kiliam, Lloydminster, Lethbridge, Taber, Wetaskiwin, Beiseker, Springbank, Coaldale, Barnwell, Milk River, Warner, Brooks, Raymond, Forestburg, Provost, St. Albert, Drumheller, Wainwright, Irvine, Wildhorse and Fort Saskatchewan.
- 1998, an isolated case of DED was found in Wainwright by STOPDED. This tree was promptly removed and properly disposed of.
- 1999 - An elm inventory completed in 529 municipalities in 1999 determined a total of 220,000 elms valued at \$792 million grow in Alberta's urban areas. This inventory also indicated that 10-50% of the trees planted in municipalities are elm trees.
- Through distribution to Alberta farmers for a shelterbelt program, one-half million elms, of both American elm and Siberian elm (*Ulmus pumila*), were distributed before 1976.
- Since 2005, STOPDED has received a Government of Alberta funding grant to operate the Provincial DED Prevention Program. Alberta Agriculture and Rural Development, Sustainable Resource Development, Tourism, Parks and Recreation, and Municipal Affairs are the four government agencies that contribute to this grant.

- 2006 - BEBB found for the first time in Medicine Hat.
- 2009 - BEBB found in Irvine, Coutts, Wildhorse and again in Medicine Hat.
- 2010 – 54 BEBB found in Medicine Hat.
- As a result of vectors being found in Alberta, trapping locations and elm surveillance has been increased in those positive locations.

### 3. Current DED Situation

- Both of the **DED vectors and the DED pathogens are declared pests** under the Provincial Agricultural Pest Act, administered by AARD. The Canadian Food Inspection agency administers the Plant Protection Act (Canada) which regulates the movement of the disease from infested to disease-free areas and between provinces.
- An “**Alberta DED Response Plan**” is in place.
- Alberta has a **provincial elm pruning** ban from April 1st to September 30th in place.
- **DED Public Awareness Week** is recognized annually province wide from June 24th to June 30th.
- **DED is well established in the southern parts of Manitoba and south eastern parts of Saskatchewan.** It now extends throughout the entire natural range of elms in MB.
- Saskatchewan also reports **high numbers of DED** along the Fort Qu’Appelle River all the way to Buffalo Pound Park just north of Moose Jaw.
- Saskatchewan government decreased their Prevention and Management Program 2009/2010 budget from \$500,000.00 to a 2010/2011 budget of \$100,000.00. This substantial decrease will increase Alberta’s risk of getting DED.
- Municipalities in areas fighting the disease have “**Prevention/Controls Programs**” in place. With an effective DED management program in place, the City of Winnipeg’s elm losses averaged approx. 1.2%-2% annually or 2,900 trees per year since 1975.
- Winnipeg has lost 60,000 trees in the last 34 years, the city’s elm population is still 160,000.
- **Winnipeg 2010 DED program:**
  - 2010 budget was 3.68 million, this includes 1 million from the province
  - total marked trees for removal is 5,636
    - 4543 have DED
    - 1,093 are hazard trees
    - 232 firewood notices issued with a 39% compliance
- DED is also found in Missoula, Billings, Great Falls and Sidney.
- Smaller European elm bark beetles are found in high numbers in British Columbia, but no DED has been found to date.
- Alberta is one of the last geographic areas in North America still DED free.
- Smaller European elm bark beetle are found in municipalities throughout Alberta. The banded elm bark beetle is a new DED vector, and has been found in Medicine Hat, Irvine, Coutts and Wildhorse in recent years.

#### 4. STOPDED Mandate and Goals

Members include federal, provincial and municipal representatives, nurserymen, landscapers, commercial and municipal arborists, horticultural/ arboricultural students, research scientists and other interested Albertans. STOPDED members across the province take an active role in the prevention of DED.

2010 membership total - 24 individual and 35 corporate (corporate has 4 votes) and 170 associate.

- **Mandate:** To foster and promote the survival of the American elm (*Ulmus americana*) in Alberta and the desire to protect Alberta's landscape trees threatened by pests with emphasis on invasive alien species
- **Objects** or Constitution of the Society registered August 17, 2010 with Alberta Corporate Registry:
  1. To primarily foster and promote the survival of the American elm (*Ulmus Americana*) in Alberta by preventing the establishment of Dutch elm disease and its insect vectors.
  2. To protect other Alberta landscape trees threatened by pests with emphasis on invasive alien species.
  3. To advocate for the restriction of movement of pest carrying wood or firewood into and within Alberta.
  4. To increase the awareness in the horticultural industry, in the general public, and in our governments of the immense value of our landscape trees, the value of our urban forests and of the possible insect and disease threats to them.
  5. To assist and fund research on highly destructive landscape insect and disease pests.
  6. To facilitate, for the public and for government agencies, the early detection of and rapid response to destructive invasive alien species that imperil landscape trees.

#### 5. STOPDED Organization Accomplishments

A new board was elected at the April 2009 Annual General meeting. (See appendix IV) The following list is a number of organization accomplishments made since that time.

- Established a **new STOPDED Hotline** 1-877-837-ELMS. This is being included on all public awareness material.
- In May, the STOPDED Board adopted and instituted a **“Travel Policy”** and created an **“Expense Form”**. This has improved decision making and provides a paper trail for enhanced accountability.
- STOPDED engaged the SVS Group Accountants to **review and audit both STOPDED's books and examine its accounting practices**. This review and audit is now completed.
- To this end, STOPDED applied to the Federal Government for GST status as a non-profit organization and has received their first GST refund of approximately \$3,500 for the 2008/2009 fiscal year and anticipate over \$9000.00 refund for the 2009/2010 fiscal year.

- Hired a bookkeeper to implement the SVS Group Accountants recommendation. STOPDED has moved to a “Project Based Accounting System” to allocate expenditures, based on project needs using a standard accounting program.
- Casino held in April, 2010. Funds raised will be used for research and additional public awareness such as municipal DED signs, educational workshops and ads.
- A new 17 page **STOPDED Bylaws** was registered with Alberta Corporate Registry on August 17, 2010.
- **STOPDED’s minutes** have taken on a new look, making the issue of decision making and responsibilities obvious and transparent.
- A STOPDED membership logo was designed and a “**Membership Logo Use Policy**” ratified by the board.
- Work with AAFD web site representative **and updated the STOPDED website** which is housed under AAFD Ropin the Web. A number of new items have been added to the [www.stopded.org](http://www.stopded.org) web site.
  - “Last Stand” education video which was funded by STOPDED and can be used to educate employers, employees, council members, students and the general public on DED and how it can be prevented
  - STOPDED Bylaws
  - STOPDED Objects
  - STOPDED Membership Logo Use Policy
  - Research project final report
  - STOPDED adopted general minutes
- **Director Manuals** have been assembled to include board position responsibilities, contact information, business plan etc. This manual serves as a guide to help board members to understand their role in the provision of good governance.
- **STOPDED Board passed a motion granting an associate membership category** to include all Alberta Agriculture Fieldmen and their Assistants. Since then there has been much more communication and cooperation from this group. The associate membership recognizes this ongoing working relationship that is necessary to strengthen the working relationship with “on-site” detection of DED.
- **Research Committee established new terms of reference**, mandate, composition and membership. This STOPDED Board approved document outlines terms of office, frequency of meetings, reporting structure and specific functions. Two key functions include:
  1. make recommendations to the STOPDED Board of Directors regarding the merit and suitability research funding requests and project funding requests made to the Society.
  2. provide oversight to research and science-related projects undertaken by the Society to ensure quality and that the Society’s interests are maintained.
- **Research Committee updated the STOPDED Research Funding Guidelines** that outlines eligibility, the application process, and specific requirements of those who are qualified to receive funding.
- **Research Committee established a STOPDED Research Work Plan** – Now that the Society is directly delivering research projects, the plan establishes the accountability for clearly identifying objectives, desired outcomes and performance measures (measures of success) for each phase of the anticipated project. It also establishes clear expectations of the direction and focus and accountability for the project.

- **Invasive Alien Species (IAS) Program**
  - Insect collection from the 2007 -2009 IAS Partnership Program funded by Environment Canada, was moved from the private home Western Pest Management Company to a public institution, Olds College. The large collection is now properly housed to ensure the long term storage. Dr. Ken Fry, Olds College, Entomology Instructor has made a commitment to provide 25 hours per year of expert scientific entomological support to assist with curation of material.
- **Memorandum of Understanding (MOU) between Olds College and STOPDED was signed at the April AGM at Olds College.** This relationship is expected to enhance both STOPDED and Olds College.
- **Four scholarships** have been put into place for four worthy Olds College horticultural and arboricultural students.

## 6. Integrated DED Prevention Program Components

In order to be successful a prevention program must have all the following components included. If one or more of the practices is reduced or eliminated, the overall program will significantly decrease in effectiveness.

### a. **Monitoring for DED vectors**

*Smaller European elm bark beetle (SEEBB), native elm bark beetle (NEBB) and the banded elm bark beetle (BEBB)*

- Provides vital information for DED detection.
  - Monitoring for the three exotic insect vectors is carried out each year throughout the province to determine if the beetles are present.
  - Pheromone baited sticky traps are used to monitor for the DED vectors.
  - It is important to monitor for these three beetle species since they can carry spores of the DED fungus. As they move from breeding sites, such as DED-infected trees or firewood, to feed on healthy elm trees, DED can be spread.
  - If one of these species are found in an area, surveillance of the disease and beetle monitoring locations are increased in that area.
  - Number of traps placed in each municipality depends on location of the municipality, number of elms and if any insect vectors have been trapped in previous years. Approximately one trap is placed for every 500 trees. Traps are placed in some municipalities with less than 500 trees because of their location to borders etc.
  - Beetle populations must be monitored using pheromone traps. Locations to be monitored are municipalities, recreational/campgrounds, Travel Alberta Information Centres, Alberta-Montana border crossings, and nurseries that sell elms.
- b. **Surveillance of elm trees** for DED symptoms is done in locations where vectors have been found.
- c. **Sampling** of suspicious elm trees.
- d. **Public awareness** on the disease identification and prevention is essential since DED detection is dependent on the public.
- e. **Train the trainer** to insure enforcement officers such as the Agricultural Fieldman and Custom Officials are informed.
- f. **Provincial elm inventory** supplies the basic information necessary for an effective prevention program and identifies areas where intensive surveillance is necessary.

- g. **Provincial and inter-provincial network** to maintain a liaison with all program partners and cooperators.
- h. **Response plan and regulations** in place and updated as required.
- i. **Elm firewood collection and disposal** is essential to insure DED vector infested elm firewood is not stored or transported within or into Alberta.
- j. **Research** is supported to find resistant varieties of elm trees, and new control techniques until there is a cure for DED.

## 7. Provincial DED Prevention Program Accomplishments

### a. Monitoring for DED vectors (SEEBB, NEBB and BEBB)

*Monitoring season runs from April 1<sup>st</sup> to September 30<sup>st</sup>.*

- o A total of 1708 traps and lures are purchased and STOPDED and the larger cities to monitor for the DED vectors in the following number of municipalities, nurseries, parks and ports of entry. **(See appendix II)**
  - o 117 Municipalities(cities, towns, villages, hamlets),
  - o 31 - Nurseries
  - o 30 - Parks (Provincial and Municipal)
  - o 5 - US/Canada Port of Entry
- o STOPDED distributed 252 traps to 51 municipalities, 5 ports of entry, 30 provincial parks. These traps are changed twice per season and scanned by Olds College students, supervised by instructor Dr. Ken Fry. **(See Table 1)**
- o The City of Edmonton, Calgary, Red Deer, Medicine Hat and Lethbridge, manage a total of 1058 traps to monitor 203 sites within their city limits. Traps are purchased by each city, changed monthly and scanned by city staff. **(See Table 2)**
- o The City of Edmonton, Calgary, Red Deer and Lethbridge are also responsible for distribution and scanning of traps in their buffer zone municipalities. By doing this, it increases the municipalities in the province monitored by 66. Traps for buffer zones are supplied by STOPDED and changed twice per season.

## 2010 Trapping results to date

**Table 1 Traps coordinated by STOPDED, inspected by Dr. Ken Fry**

Target Species		Location	Trap Set May to July	Trap Set July to Sept	Total
SEEBB	<i>Scolytus multistriatus</i>	Drumheller	1	0	1
SEEBB	<i>Scolytus multistriatus</i>	Wainwright	1	0	1
SEEBB	<i>Scolytus multistriatus</i>	Wetaskiwin	1	0	1
SEEBB	<i>Scolytus multistriatus</i>	Lloydminster	3	0	3
SEEBB	<i>Scolytus multistriatus</i>	Vulcan		1	1
BEBB	<i>Scolytus schevyrewi</i>		0	0	0
NEBB	<i>Hylurgopinus rufipes</i>		0	0	0
TOTAL EBB TARGETS			6	1	7

**Additional traps were set up for the second half of season in positive locations.**



**Table 2 Traps coordinated and inspected by larger cities, all EBB will be verified by Greg Pohl or Dr. Ken Fry. Calgary still need to inspect July, Aug and Sept traps.**

Target Species		Location	Trap April	Trap mid-May to mid-June	Trap mid-June to mid-July	Trap mid-July to mid-August	Trap mid-Aug to late Oct	Trap Sept	Trap Oct	Total
SEEBB	<i>Scolytus multistriatus</i>	Edmonton		1						1
SEEBB	<i>Scolytus multistriatus</i>	Calgary			11	?	?	?		11
SEEBB	<i>Scolytus multistriatus</i>	Lethbridge				2				2
SEEBB	<i>Scolytus multistriatus</i>	Medicine Hat			5					5
BEGB	<i>Scolytus schevyrewi</i>	Medicine Hat		2	4	41	15			62
NEBB	<i>Hylurgopinus rufipes</i>									0
				3	20	43	15			81

**To date-number of EBB targets captured in 2010 traps provincial wide – 89**

**b. Surveillance of elm trees**

Since beetles have been found in a number of municipalities throughout the years since 1996, a survey was conducted in municipalities in counties and MD's along the east and south side of the province this summer by Nigel Seymour. This is the first time this type of survey has been done although when the inventory was conducted in 1998, the crews were always looking for symptoms and the elm tree in Wainwright was found.

**c. DED suspect sampling**

Arrangements were made to have samples taken from all suspect DED elm trees samples by STOPDED. These were sent to Dr. J.P. Tewari, Professor Emeritus with University of Alberta for diagnosis. A total of 11 samples were cultured. All tested negative for DED. This service is paid by STOPDED.

**d. Public awareness**

STOPDED undertakes many initiatives to promote DED prevention among Alberta citizens and to visitors to Alberta. (See appendix III)

**e. Train the trainer**

- o Contact was made with custom officials to insure that they understood the importance of collecting firewood
- o e-Bulletins were sent out to Agriculture Fieldman regular on DED prevention.

**f. Provincial elm inventory** is completed in 1999 in all Alberta municipalities.

**g. Provincial and inter-provincial network**

- o E-bulletins sent to British Columbia, Saskatchewan and Manitoba contacts.
- o Communication is made via email and phone for regular pests updates.

**h. Response plan and Regulations**

- o Response plan was written 1996
- o First draft of the DED regulations has been written

**i. Elm firewood collection and disposal**

- o As part of the STOPDED's invasive alien tree pests prevention, the Society maintains firewood collection bins at all US/AB ports of entry and at all Travel Alberta Information Centres. All firewood is confiscated at the US/AB ports whereas the bins at the information centres are volunteer bins. All bins were emptied and firewood disposed of by volunteers.

- Travellers are requested to leave firewood in the bins in order to reduce the risk of importing insect vectors or disease through highway signage, ads placed in the Alberta Campground Guide and AMA SK, BC and AB Westworld magazines and posters and brochures placed in all Travel Alberta Information Centres and Border Custom offices.

j. **Research**

Casino funds are used for all research funded by STOPDED. All projects funded are reviewed and recommended by the Research Committee and approved by the Board.

- **“The fate of elm diseases during composting”** project conducted by the Edmonton Waste Management Centre of Excellence (Not for Profit Corporation) funded for two years, 2009 and 2010. 2010 report pending.
- Funding for **“Bionomics of the Banded Elm Bark Beetle and Implications for Dutch Elm Management”** by Dr. Neil Holliday (University of Manitoba)
- Funding for **“Surveillance of elm trees for DED and DED public awareness in municipalities along AB/SK border”** was completed. Final report found on [www.stoppeded.org](http://www.stoppeded.org) under “Research Projects Final Reports”.
- Curation has continued on the Invasive Alien Insects (IAS) collection housed at Olds College by Dr. Ken Fry and students.
- The 2010 Invasive Species survey was organized by STOPDED and conducted in Calgary Edmonton, Grande Prairie, Lethbridge,, Medicine Hat and Red Deer by city staff. STOPDED and CFIA funded the project. All insects collected were sent to Olds College for curation.

## 8. STOPDED Goals for the Future

- Continue to secure funding from Government agencies to operate a Provincial DED and other invasive tree pests prevention program.
- Continue to form partnerships so program prevention program components and projects can be done more efficiently and effectively.
- Improve monitoring program by:
  - Visit municipalities that are having monitoring concerns.
  - Work with Dr. Ken Fry and Olds College students to create a series of short videos to be placed on U-tube and linked to [www.stoppeded.org](http://www.stoppeded.org) showing co-operators how to:
    - place DED vector trap
    - where to place trap
    - attach pheromone lures onto trap
    - send trap back for inspection.
- BEBB is a new vector of DED and has been found in larger number in Medicine Hat in 2010. Saskatchewan reports capturing BEBB in the south east of their province.
- Have more DED surveillance done in municipalities due the increase of EBB, especially the BEBB in the province.
- Hold workshops on DED and other invasive tree pests.
- Continue research effective methods of advertising.
- Update and rewrite DED Response Plan.
- Continue working with AARD Pest Surveillance Branch to include DED prevention/control measures in the Alberta Agricultural Pests Act Regulations.
- Complete a 2011-2015 STOPDED Strategic Plan to include goals and actions.
- Continue to encourage planting of elms throughout the province.

## Appendix I

The following list indicates the number of trap sites in each location and the responsible party.

**LEGEND:**

CGY - Calgary	LB - Lethbridge
EDM - Edmonton	MH - Medicine Hat
SC - Strathcona County	RV - Rocky View MD#44
StC - Sturgeon County	
STOPPED	

<u>Municipality</u>	<u>#Sites</u>	<u>Responsibility</u>
Acadia Valley, M.D. of	1	STOPPED
Airdrie, City of	2	CGY
Ardrossan, Hamlet of	1	SC/EDM
Balzac, Hamlet of	1	CGY
Barnwell, Village of	1	LB
Barrhead, Town of	1	STOPPED
Barons, Village of	1	LB
Beaumont, Town of	1	EDM
Beiseker, Village of	1	RV/CGY
Bentley, Village of	1	RD
Bon Accord, Town of	1	EDM
Bonnyville, Town of	1	STOPPED
Bowden, Town of	1	RD
Bow Island, Town of	1	MH
Brooks, Town of	7	STOPPED
Bruderheim, Town of	1	SC/EDM
Calgary, City of	67	CGY
Calmar	1	EDM
Camrose, City of	3	STOPPED
Camrose, County of		
Round Hill, Hamlet of	1	STOPPED
New Norway, Hamlet of	1	STOPPED
Cardston, Town of	1	STOPPED
Castor, Town of	1	STOPPED
Cereal, Village of	1	STOPPED
Chauvin, Village of	1	STOPPED
Chestermer, Town of	1	CGY
Claresholm, Town of	2	STOPPED
Coaldale, Town of	2	LB
Coalhurst, Town of	2	LB
Conrich, Hamlet of	1	CGY
Consort, Town of	3	STOPPED
Coronation, Town of	2	STOPPED
Coutts, Village of	2	STOPPED
Dalroy, Hamlet of	1	RV/CGY
Daysland, Town of	1	STOPPED
Delburne, Village of	1	RD
Devon, Town of	2	EDM
Diamond Valley	1	LB
Drayton Valley, Town of	1	STOPPED
Drumheller, Town of	3	STOPPED
East Coulee, Hamlet of	1	STOPPED
Nacmine, Hamlet of	1	STOPPED
Rosedale, Hamlet of	1	STOPPED
Eckville, Town of	1	RD
Edgerton, Village of	1	STOPPED
Edmonton, City of	48	EDM
CDCN	1	STOPPED
Elnora, Village of	1	RD
Empress, Village of	2	STOPPED
Enchant, Village of	1	STOPPED
Forestburg, Village of	5	STOPPED
Fort Macleod, Town of	1	LB
Fort Saskatchewan, City of	6	EDM
Gibbons, Town of	1	EDM
Grande Prairie, City of	3	STOPPED
Grassy Lake, Hamlet of	1	MH
Hanna, Town of	2	STOPPED
High Prairie, Town of	2	STOPPED
High River, Town of	2	STOPPED
Innisfail, Town of	1	RD

<u>Municipality</u>	<u>#Sites</u>	<u>Responsibility</u>
Irvine, Village of	1	MH
Kathryn, Hamlet of	1	RV/CGY
Keoma, Hamlet of	1	RV/CGY
Killam, Town of	2	STOPPED
Lacombe, Town of	3	RD
Langdon, Hamlet of	1	RV/CGY
Leduc, City of	3	EDM
Legal, Town of	1	SA/EDM
Lethbridge, City of	33	LB
Leth Correctional Centre	1	LB
Leth Research Centre	1	LB
Leth. Wilson Siding	1	LB
Lloydminster, City of	7	STOPPED
Magrath, Town of	1	LB
Medicine Hat, City of	36	MH
Milk River, Town of	2	STOPPED
Mirror, Village of	1	RD
Monarch, Hamlet of	1	LB
Morinville, Town of	1	EDM
Nanton, Town of	1	STOPPED
Nobleford, Village of	1	LB
Okotoks, Town of	2	CGY
Olds, Town of	1	STOPPED
One Four, Hamlet of	1	MH
Oyen, Town of	2	STOPPED
Picture Butte, Town of	1	LB
Pincher Creek, Town of	1	STOPPED
Ponoka, Town of	2	RD
Provost, Town of	2	STOPPED
Raymond, Town of	3	LB
Redcliff, Town of	1	MH
Red Deer, City of	19	RD
Redwater, Town of	2	EDM
Rimbey, Town of	1	RD
Sherwood Park	2	SC/EDM
Springbank, Hamlet of	1	RV/CGY
Springbrook, Hamlet of	1	RD
Spruce Grove, City of	2	EDM
St. Albert, City of	12	SA/EDM
Stettler, Town of	2	STOPPED
Stirling, Village of	1	LB
Stony Plain, Town of	3	EDM
Strathcona County	8	EDM
St. Paul, Town of	2	STOPPED
Strathmore, Town of	2	CGY
Suffield, Hamlet of	1	MH
Sylvan Lake, Town of	1	RD
Taber, Town of	5	LB
Three Hills, Town of	1	STOPPED
Trochu, Town of	1	STOPPED
Vauxhall, Town of	2	STOPPED
Vegreville, Town of	2	STOPPED
Vermilion, Town of	1	STOPPED
Veteran, Village of	1	STOPPED
Viking, Town of	1	STOPPED
Vulcan, Town of	1	STOPPED
Wainwright, Town of	4	STOPPED
Walsh Travel Info. Centre	1	MH
Warner, Town of	2	STOPPED
Wetaskiwin, City of	3	STOPPED
Youngstown, Village of	1	STOPPED

<b>Nurseries</b>	<b>#Sites</b>	<b>Responsible</b>
Alberta Tree Movers	1	CGY
Arrowhead Nurseries	1	EDM
Bluegrass Nurseries	1	CGY
Blue Grass Sod Farms	1	RD
Cheyenne Tree Nursery	1	EDM
Coaldale Nurseries Ltd	1	LB
Economy Landscaping	1	StC/EDM
Foothills Landscaping	1	CGY
Golden Acre Garden Centre	1	MH
Golden Acre Garden Sentres NE and Greengate	2	CGY
Green Haven Tree Farm	1	LB
Greenland Nursery	1	EDM
Heritage Nurseries	1	StC/ED
Heritage Tree Nurseries	1	CGY
Lacombe Tree Farms	1	RD
Millcreek Nursery	1	EDM

Old Man Creek	1	EDM
Parkland Nurseries	1	RD
Pireira and Monez Landscaping	1	StC/EDM
Poplar Ridge Tree Farm	1	RD
Salisbury Greenhouses	1	SC/EDM
Simon Bos Nurseries Ltd.	1	LB
Spruce Lanes	1	CGY
Sunnyside Greenhouses Ltd.	1	CGY
Sunshine Tree Nursery	1	StC/EDM
Sunstar Nurseries	1	EDM
Tom's Tree Farm	1	EDM
Vollmin Tree Movers	1	CGY
West Edmonton Treeland	1	EDM
William Holt Nurseries	1	CGY
Windmill Garden Centre	1	MH

<b>Parks</b>	<b>#Sites</b>	<b>Responsible</b>
Aspen Beach PP	3	STOPPED
Big Knife PP	1	STOPPED
Buffalo Lake PP	1	STOPPED
Dillberry PP	1	STOPPED
Dinosaur PP	1	STOPPED
Dixon-Stevenson Rest Stop	1	RV/CGY
Elkwater Cabin Area	1	STOPPED
Gooseberry Lake PP	1	STOPPED
Half Moon Lake Resort	1	SC/EDM
Island Buffalo Jump PP	1	STOPPED
Jarvais Bay PP	1	RD
Kinbrook PP	1	STOPPED
Lac Ste. Anne County Meyerthorpe Campground	1	STOPPED
Little Bow PP	1	STOPPED
Little Fish PP	1	STOPPED
Midland PP	1	STOPPED
Pine Lake PP	1	RD
Parkland PP	1	RD
Reesor Lake PP	1	STOPPED
Rochan Sands PP	1	STOPPED
Sherwood Forest Campground	1	SC/EDM
St. Mary Reservoir	1	STOPPED
Strathcona Science PP	1	SC/EDM
Taber PP	1	LB
Tillibook PP	1	STOPPED
The Narrows PP	1	STOPPED
Tolman Bridge PRA	1	STOPPED
Vermillion PP	1	STOPPED

<b>Port of Entry</b>	<b>#Sites</b>	<b>Responsible</b>
Chief Mountain	1	STOPPED
Carway	1	STOPPED
Coutts	1	STOPPED
Del Bonita	1	STOPPED
Wild Horse	1	STOPPED

## Appendix II

- **Advertisements focused on Elm Firewood and Elm Pruning Recommendations**
  - **2010 LANDX**. Industry resource guide with a target distribution of 1000 in AB, BC, and SK.
  - **Westworld AMA Alberta** Summer 2010, issue. Distribution is 523,094
  - **Westworld BCAA British Columbia** Summer 2010. Distribution is 531,000
  - **Westworld CAA Saskatchewan** Summer 2010. Distribution is 115,389.
  - **Official 2010 Alberta Campground Guide** a primary reference for vacationing travelers. 250,000 copies are distributed locally, nationally and internationally. Estimated 750,000 campers and families utilizing the Guide. Lists more than 650 campgrounds around the province.
  - **Grand Parent Magazine** May/June. Distribution is over 70,000 copies to leading grocery stores such as Safeway, Hudson Bay Company, newsstands, medicentres, family recreational facilities, health service providers and all public libraries.
  - **Enviro Kids Ad** June. Unique publication formed to better educate and enlighten young people on environmental issues.
  - **Prairie Landscape Magazine** April/May and Oct/Nov. Nursery resource Guide in AB, BC, SK and MB. Distribution of 2000
  - **Alberta Guide to Sportsfishing Regulations 2010**, Official guide for Alberta. Distribution 310,000
  - **Alberta Guide to Hunting Regulations 2010**, Official guide for Alberta. Distribution 200,000
  - **Alberta Outdoorsmen** April, June, July. 10,000 copies are distributed through sporting goods stores, major chains, newsstands across Alberta and to subscribers.
  - **Alberta Gardener** Spring issue. 5000 gardener subscribers.
  - **The Gardener for the Prairies** Summer
  - **Western Amateur Sports Paper**” summer edition. Distributed in Edmonton, Calgary, Red Deer, Grande Prairie, Lethbridge, Medicine Hat, Lloydminster, Banff and Jasper at Safeways, McDonald’s Restaurants, Sports Pubs, local arenas and Rec&Fitness Facilities. Circulation 20,000.
  - **Alberta Native News** June issues. This magazine is distributed to 14,000 families in all the First Nations, Metis Settlements and Friendship Centres.
  - **Edmontonschild** March/April and Sept/Oct issue. Distribution is 200,000 in Edmonton and surrounding communities.
  - **Calgary Jubilations Dinner Theatre Playbill** April 16- June 20 and June 25-August 29. **Edmonton Jubilations Dinner Theatre Playbill**” April 2-June 6 and June 11-August 15. Target audience is middle to high income. Playbill is also mailed out to major hotels, tourism and information offices and airports throughout each city. Circulation is 100,000
  - **The Prairie Arborist** Issue 1, 2 and 3. ISA Prairie Chapter newsletter for professional arborists, suppliers of arboriculture equipment, suppliers of arboricultural services, municipal arborists, parks administrators, arborist educators and trainers. 300 subscribers .
  - **Tree Service Canada** 2010 spring edition. Target audience Alberta tree service professionals. 10,000 subscribers
  - **Western Canadian Game Warden** Summer issue. Distributed throughout all western provinces and in the USA. Circulation 6000

- **Magazine and News Articles.**
  - **The Prairie Arborist** July
  - **The Provosts News** August and October
  - Articles placed in **Agri-News** are picked up by local papers across the province.
    - March 29 – Alberta Elm Pruning Ban
    - May 3 - Protecting Alberta
    - July -12- Check Elm Trees for Dutch Elm Disease Symptoms
    - Sept 27 - International Society of Arboriculture 2010 Prairie Chapter Conference
    - Oct 18- Alberta's Elm-Pruning Ban is Over
    - Oct 25 - Tree Tips for Fall
- **STOPDED E-Bulletin's**

As part of the ongoing efforts to keep members informed on DED and other related pest issues and information E-Bulletin's are regularly sent out.
- **Tradeshows**
  - ISA Prairie Chapter three day Conference, Saskatoon
  - Green Industry Trade Show & Conference
- **Posters and brochures**

Updated the design for both the poster and brochure to focus on firewood control. These were sent to Municipalities and Provincial contacts to be placed in Municipal/Provincial campgrounds, provincial ports of entry and Travel information centres.
- **Conferences**
  - Manned the DED display at the ISA Tradeshow and co-sponsored the three day ISA Conference in Saskatoon, Sept 29.
  - Distributed posters and posters to ISA members attending the ISA workshop in Edmonton, Nov 18. Also co-sponsored the workshop.
- **STOPDED Hotline – 1-877-837-ELMS (3567)**

123 calls with concerns and questions ranging from information on the DED Response Plan, Agricultural Pests Act, Plant Protection Act of Canada, storm damage, pruning ban, proper disposal, proper tree care and DED symptoms.
- **STOPDED Wesite**

AARD Ropin the Web **DED website** updated when needed by AAFD.
- **STOPDED Information Material**
  - Decals, note pads, and business cards were handed out at tradeshows.
  - STOPDED display updated with a new firewood information panel.
  - **Accredited Community and Regional Visitors Information Centres and Travel Alberta Visitor Information Centres** were contacted and sent brochures, posters and DVD. These Centres are located in Brooks, Brazeau, Camrose, Devon, Cochrane, Cold Lake, Fort McMurray, Grande Cache, Lac La Biche, Leduc, Millet, and Pincher Creek, Rocky Mountain House, Slave Lake, Falher, Stettler, High River, Vulcan, Westlock, Whitecourt. Canmore, Crowsnest Pass, Grande Prairie, Field, Hinton, Lloyminster, Milk River, Oyen, Walsh, and West Glacier. All were contacted several times through the summer to check their brochure supply.
- **Firewood Trailer used to dispose of wood collected at Alberta/Montana Ports of Entry**

Trailer was repainted and place on each side a 4'x 4' aluminum DED municipal signs which includes the STOPDED hotline. This trailer is parked at Chief Mountain Port of Entry and used by Phil Merrill, AARD Inspector to empty and dispose of wood collected in the bins at Coutts, DeBonita, Carway Ports of Entry.

## Appendix III

### STOPDED Board

<b>Chair:</b>	Milton Davies Arbor-Pro Tree Consulting Ltd. (Consultant) Edmonton
<b>Vice Chair</b>	Dr. Ieuan Rhys Evans Agri Trends (Consultant) Spruce Grove
<b>Secretary</b>	Jacqueline Dawn Powell Red Deer Regional Hospital (Certified Arborist & Utility Specialist) Red Deer
<b>Treasurer</b>	Kevin Veenstra City of St Albert Parks (Tree and Pest Foreman) St Albert
<b>Director North</b>	Michael Jenkins City of Edmonton (Biological Technician) Edmonton
<b>Director Central</b>	Elaine Johnson City of Red Deer (Urban Forester) Red Deer
<b>Director South</b>	Cody Anderson Arborcare Tree Services Ltd. (Superintendent) High River

**STOPDED Executive Director** Janet Feddes-Calpas